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Medicus enim Philosophus est deo similis —
Bis. de Elegantiis - - - -

RUSH

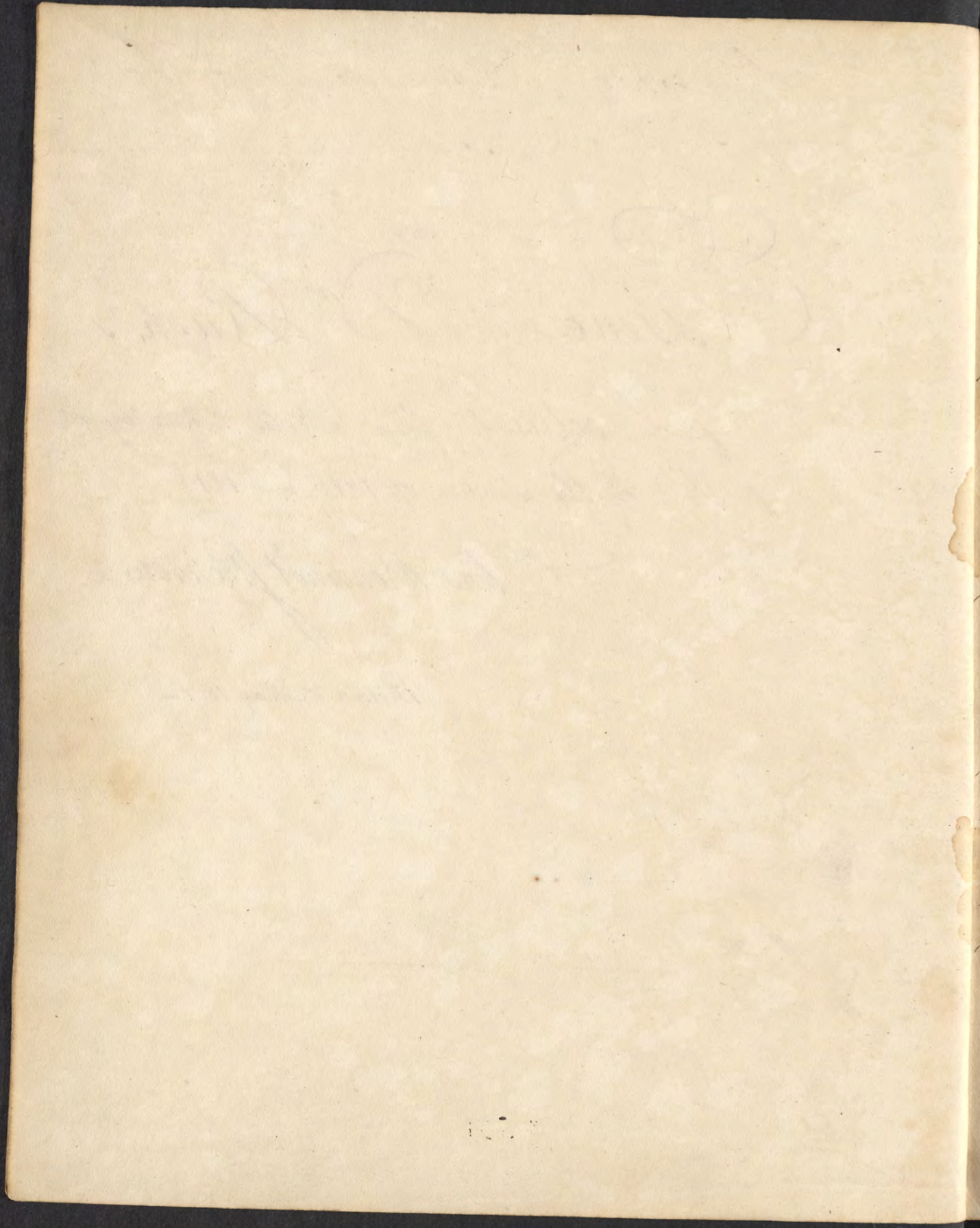
"Clarum et venerabile nomen."

Wm. Rush died in 1813

Essence of Dr. Rush's
Lectures from Notes taken by me
in the winters of 1815 and 1816

Elias Boudinot Stockton

Philad^a 4 May 1817—



Preparatory Remarks &c

We must consider Truth a Tyrant, and give her all the exalts —

Obtain the general principles of every science, they will at least strengthen the mind and fit it for the important duties of a Physician —

Study the Poets — the study of Thompson's Seasons altho' containing no immediate reference to subjects of medicine would be highly useful, as it would at least beget an attention and a minute observance of animal phenomena —

Be not the mere Physician, but grasp every thing and endeavor to render it subservient to your Profession —

Observe well, but not like the Animal — observe the relation things bear to each other —

I would safely aver he would be the better Physician who made himself well acquainted with Smith's Wealth of Nations and Shakspeare's plays —

Poets are nice observers of the effects of the passions

Observe, read & think for yourself —

B.

We must consider every subject in Medicine as an Ore
from which the Metal alone is to be extracted.

In a sick room we should endeavour to be all
eye, all ear, all touch, all smell — so that
we may be all mind

— the improvement of these should be part of a
Physician's education

We are indebted to our Senses for our minds, had
we not them we should be on a level not with
Brutes but with stones

The fewer and more feeble the impressions on the Senses,
the more feeble the mind and vice versa

Rules. C.

When called to a patient first hear his own description of his case — then hear it from his friends — then ask the following questions. —

1. As to the duration of the disease — for in one of short continuance it may be only a disease of function by a long continuance it becomes a disease of Structure
2. The time & manner of attack
3. The remote cause — diet exercise, miasma &c
4. The predisposing causes —
5. Habits in eating, drinking &c
6. Of concealed Guilt or Love
7. Native Country —
8. Previous attack of the same disease
9. Occupation how carried on — what tools &c
10. Family Medicines in use
11. Proximate causes & symptoms — position, diet, air &c
12. State of the Alimentary Canal
13. If costive or lax how long &c smell of feces — State of urine
14. State of skin, colour &c
15. Appetite
16. State of the Mind, faculties of the Memory & Understanding
17. Of Sleep & watchfulness — posture in do — & of dreams —
19. Appearance of the eyes Dilated pupil indicat^g a diseased brain
20. — Of the tongue — Of the voice — Of the nails black, Yel. or red —
21. Of the Pulse

— Gout & seminal weakness, in old age often proceed from intemperance & onanism in youth. —

D.

^E Of Sympathy.

Its operations are insensate.

It is most apparent in the nervous system

It is not confined to sensations & motions but extends to the operations of the mind — hitherto called Association —

1st Of Sympathies of the body —

— Sympathy of continuity — from an intercommunication of parts

“ of contiguity “ “ bet. parts of the body that are contiguous tho’ dissimilar. #

— reciprocal sympathy in the Stomach & the Brain and the Brain on the Stomach

— non reciprocal — bet. the Stomach & Kidney, the latter affecting the former —

— inverse — Skin & lungs ~~and~~ skin & bowels —

Sympathy is not confined to the nerves but extends to the muscles, tendons, lymphatics &c

There is an error sensus & an error motus, called by Mr Hunter delusive sympathy

The liver produces colic & the reverse only by their contiguity
Sounds have been communicated to deaf persons thro’ their hands & feet —

1st the Brain — Sympathies bet. dif. parts of the body —
1 with all the Senses

2 with the Stomach inducing nausea & vomiting

3 “ Liver — “ vomiting of bile

4 “ Spleen

5 “ Feet coldness inducing headache

6 “ all the muscles of the body

7 “ the passions of the mind

2. The Stomach with the Head, senses, eyes, tongue
fauces, trachea, lungs, liver, heart kidneys, uterus
skin - the whole body (except the connexion bet.
the sense of hunger and general debility)
with the Mind also -

3. The Intestines with the Stomach, Head, Liver &c

4. The Liver with the Stomach, Bowels, lungs, limbs,
shoulder, diaphragm, rectum

5. Lungs with the Skin, Genitals, Trachea &c -

6. Diaphragm with the Brain, liver, stomach, nose

7. Eyes - with the Stomach & each other -

8. Genitals

9. Uterus with the Breasts, teeth,

10. Teeth with each other, the tongue, throat -

11. Bladder with

There are also Idiosyncrasies - Antipathies & acquired
sympathies & many sympathies are induced by
diseases which do not exist in health.

The more violent a disease is, the more we see the natural
sympathies disordered -

Sympathies differ in regard to age - sex - seasons

The sympathy in Tetanus is a destructive one

H.

Hygiene — *uyicivn* — from *uyiava* to be well —

Consists in adapting to our constitutions with propriety
Air, Aliment, Exercise, weather, Dress, proper exercise
of the faculties of the Mind, attention to excursions &c.
Before the eighth year, one half of the number born, die.

1st Of Aliments and Drinks

Man became savage, from loss of religion & letters —

Man is an omnivorous animal —

Man is with regard to his food, as much a creature
of habit as he is with regard to Climate.

Vegetable food alone, disposes to bowel complaints

Animal food — — — — — to malignant fevers, and
from each of these taken by themselves disagreeing with
the constitution it is evident Man was intended to
subsist on a mixed diet

[here followed a defense of the slaughter of animals]

Aliments act on the body so as to support it

- 1st by a stimulus independent of their nourishing qualities
tho' the medium of the Stomach — and when very
rapid, they act in this way thro' the organ of Taste
- 2^d by the facility or difficulty of digestion
- 3^d by their nourishing quality —

Aliments afford nourishment as they contain more

or less of Sugar, Oil, gelatine, ²Gluten, Starch, Gum and mucilage; also calcareous earths and carbon, Acids, Alkalies and Salts & a principle of rancidity.

Vegetables have been divided into grains, roots, seeds, nuts, fruits, pot herbs and sallads.

1. of Wheat - made into biscuit & bread -

Biscuit requiring more mastication carries more saliva into the Stomach and thus creates a more active digestion - for this, it is good in dyspeptic habits -

Bread is most wholesome in a cold state -

2. of Rye - this is more moist - is very nourishing and disposes to move the bowels gently - Mush of this is both palatable and salutary

3. Indian Corn - this is very nutritious, tho' not so much so as Wheat; but it is more stimulating -

[The Indians mix equal parts of green corn & maple sugar which they preserve for several years]

4. Rice - this is wholesome & nourishing and when boiled in water affords a pleasant drink to those whose stomachs are relaxed -

[Rice is not injurious to the eye sight]

5. Barley

6. Oats - Gruel of this meal is easy of digestion but affords little nourishment [the fermented residuum of the Oatmeal is called Sowins]

Roots 1st Of the Potatoe (3) - this contains but $\frac{1}{3}$ ^d as
much nourishment as the same quantity of Wheat
bread - it improves the paste of dumplings making them
light and spongy - it improves wheat bread and excellent
cakes are made of it -

Small pieces cut and put in vinegar have been found
very useful in Scurvy (first used by Mr. Smith, Surgeon in the
British Navy) and they may be preserved for a long voyage
by being first dried to a certain degree in an Oven

(4.)
Parsnips, Carrots and Beets are more nourishing than
Potatoes

Seeds - Beans and Pease - dry them when green, they retain by this more of their sweetness -

Potherbs - Spinage, Asparagus, Cabbage - the Asparagus proves moderately diuretic - a few drops of the Spirits of Turpentine will destroy its smell in the urine - the two fish are particularly wholesome - Saur-Kraut - fermented Cabbage is of much use in Scoury

Fruits.

Are Acid, Sweet and their Compounds - and they are nourishing in proportion to the Sugar &c they contain - they obtund acid bile &c.

Salads contain little nourishment but may be eaten with condiments -

Nuts are too nourishing to be taken largely [from one half of a hickory nut Dr. Rush expressed by the means of two hot irons, 30 drops of Oil]

Almonds are useful after being blanched, in affording the Almond Milk.

Animal Food.

Quadrupeds, Birds, Fishes, Insects, Worms -

[Fish occupy an intermediate state as to nourishment between the Animal & the Vegetable

those taken from running water are less digestible] - -

1. with regard to Sex - the females are most tender
2. as to virility - those deprived of it are more tender -
3. as to Age - Beef of 5 years old is most tender
4. as to the Class & Species - the Wilds are better & quicker digested
5. as to partic. parts - loins, steaks &c.

6. The time and manner in which they are prepared for the Hall - Animals are most wholesome when their food has been most abundant and they have been exercised -
 - 7 the Season - most animals are unwholesome in the Spring, propagating at this time -
 8. Upon the exercise they undergo previous to their being killed - the black colour of wild fowl is owing to their great exercise and hence they are more digestible
 9. The manner in which they are killed - those killed suddenly are the best, [Dr. Franklin says that animals killed by electricity have more tender food]
The fat of animals is more nourishing than the lean, but not so digestible - [3 times] -
The longer animals are kept after death, the more digestible they are, except the goose - the
- The best modes of preserving meat in warm weather are the Ice-house, the Well, a deep cellar and in covering it with powdered Charcoal
[Dr. Chauvet's mode was

It will contract a pale colour by bringing it 1 or 2 feet out into the air, after infusing it in spring water -

Putrescent Agents

(7)

1. Thunder & Lightning hasten the putrefaction of flesh
2. - Being pounded before cooked
3. Being thoroughly masticated
4. From the manner in which prepared ["Cocky lickie" is a famous soup in Scotland, made by boiling an Old cock with

By boiling, much of the nutriment of animal food is carried off -

Fish is boiled enough when it floats on the surface -
An extract is made of Beef and Mutton, palatable and salutary to invalids when they refuse solid nourishment or when it is improper -

[Beef tea is made by cutting the beef in small slices - put them into a bottle which cork well - put this bottle in water and let it boil for several hours]

Salted Meat is less nourishing than fresh

The Indians cure their meat by cutting it in slices and hanging it in the sun -
in cold countries it is preserved by freezing it in most countries - by Smoke [hang them with the small end downwards]

(8.)
Milk contains little Stimulus but much
nourishment. and is suited to all ages & climates -
it is composed of 3 parts, Butter, Cheese & Whey -
Butter is the vegetable part, Cheese the Animal (the
Whey also - both of which contain in addition a
small portion of saccharine matter -

Butter is gold in the morning, Silver at noon &
lead at night. - one pound of bread with $\frac{2}{3}$ of butter contain
Eggs. the white is the vegetable portion - the yolk
contains Animal properties & is more digestible -
when sound the large end presents a moderate heat
to the tongue - they should be boiled in water below
the boiling point -

Soft boiled eggs are nourishing and digestible -
in some consumptive & other cases where Milk is too
nourishing - we should dilute it - but this end we have
achieved in the Whey, which were it ager with the Stom.
is excellent, slightly nutritious & extremely mild &

by a milk diet alone, many have been rescued from the grave
attend to the State of the pulse before prescribing it -
* Dr. Stark lived 14 days on Olive oil & bread. & gained bet. 4 to 5
lbs. of flesh - the same happened from the use of Suet
& bread

& Whey contains a sweet, oily & saponaceous mucilage,
is friendly to the Stomach & bowels - is good to keep them
laxative when they are in a tender or excoriated state
where harsh purging would be hurtful -

• good also in urinary affections. Leake on the viscera. -

(9.)
Condiments

They are saline, sweet, oily, gelatinous, alliaceous

They stimulate the tongue, salivary glands and stomach increasing the activity of the latter and facilitating digestion — they also excite the whole system by sympathy with the organs of taste —

Condiments promote the solution of fresh meat, but retard that of salted —

When used sparingly, they are inoffensive & useful

Salt [the grand Condiment of Nature, s] Note — The origin of the word Salary is from Sal — salt, which was so necessary among the Romans and esteemed of so high importance as to induce the saying "that he who had wages, had wherewithall to buy his salt" —

Sugar — this principle whenever met with is highly nutritious — when taken fasting it has been known to prevent and cure worms —

*Oily condiments are nourishing — gelatinous but — stomachs also, as Jellies &c.

The Alliaceous are gently stimulating & moderately nourishing — [The Germans prefer vinegar, the French sugar — the English, butter — the Spaniards, onions — but the Americans more wise prefer all —]

Ice Creams are not so wholesome on an empty stomach —

Tea & Coffee — since their introduction a revolution

Tea is most injurious to the Nerves
Coffee " " Brain

too strong Tea produces wakefulness and predisposes to all the forms of Gout, as Colic, Head-ache, Hysteria &c

D. Franklin lived a fortnight on bread & water & retained his health the whole time -

Mr. Huger (Ugic) lived in prison in Europe, for some months on bread & water & came out in perfect health -

In obstinate chronic diseases, especially of the bowels, suspect the water - it is pure &

1. When flowing over scum & rapidly
2. When often agitated by wind
- 3 When boiling vegetables soon - & when transparent
- 4 When lathering soon with Soap
- 5 When agreeing with the Stomach

Pump water has contributed to increase the prevalence of Bilious fevers here -

Hippocrates says Pythodes used to prescribe his patients water & milk mixed with a great deal of water by way of nourishment - (Epidemics)

has taken place ⁽¹¹¹⁾ and with regard to Tea particularly
translating affections from the blood vessels to the nerves —

[The French call Coffee "Boisson intellectuelle"]

Coffee is good after a full meal

Coffee is good after taking Opium

Coffee, strong, is good to create watchfulness

Coffee is most cordial when taken without sugar,

— tis thus the Turks drink it —

Tin should not be used as a culinary vessel, and
by no means Copper — Iron sh^d be preferred —

Liquids.

These are Water, Fermented Lignors & Ardent Spirits
Hard water arises from the solution of saline earthy
or metallic articles — but tho' they be at first delicious
by habit they become inoffensive —

Before drinking cold water when the body is fever —
— naturally hot, grasp the vessel with both hands —
or wash the hands or head or feet: by this means heat
escapes from the body to the water and warms it and
thus is it that horses do not suffer by drinking when
heated because their feet or bodies are wet first. —

Wine & water constituted the only drink of the Roman
armies in their long & hot marches — they called it
"posca" — Water is not always the best drink during
meals because it dissolves the gastric juice and de-
—prives it of much of its solvent virtue — it disposes
also to great eating —

"drinking cold water originates generally in intemperance —
it also debilitates the stomach & creates Dyspepsia —

too much Beer induces Gout, Gravel &c. —

The first case of Gout Dr. Franklin ever had, was from drinking Cider

Wine — Those which soonest induce the Gout are Port, Claret & Burgundy — they contain much acetic acid there is no Gout in Madeira where so much wine is drunk — they do not touch it before it is 7 years old — it is better taken with food —

Beer contains much Saccharine matter — It is too
nourishing for indolent or sedentary people

Ale & Porter — dilute them in Summer with water

Cider — plunge a hot iron into it to obtund the Acid

2 barrels boiled into 1 makes the Pomona wine

Grapes contain Saccharum, Acid, Spirit & must be diluted
with water —

Distilled Spirits, produced from Rye, sugar cane, wine,
rice

Had I a thousand pens I would employ them all in
exhorting it on Parents to keep from their children
the Brandy Bottle and the Segar — They are greater
enemies to us than the sword & pestilence —

Tobacco, depraves the appetite, impairs the Stomach
creates lowness of spirits, emaciation of body — pro-
motes inordinate thirst &c &c — and leads to
the bottle — to use an English expression, such
devotees "Snap" — i. e, die suddenly —

- Dress - This may operate in 3 ways
by Quantity, Quality and by fashion
- Price is never too hot or too cold
- Persons seldom suffer from too much cloathing
Boerhaave mentions an Hæmoptysis from tight
cloathing & a 2^d case of a young Man in Berlin -
- Tight shoes - tight ligatures & tight lacing pro-
duce often very serious consequences -
- D. Rush thinks many diseases of the Brain are
induced by tight cravats &c - Friedric of Prussia
in order to have fine flourid looking men in a par-
ticular regiment obliged them all to wear very
tight cravats - many of them died of Apoplexy -
- tight garters induce big knees - anasarcaous swelling
and dispose to stumbling -
- tight lacing - a fruitful source of evils, inducing
affections of the Lungs, Liver, - Dyspepsia - Schirrus
of the Breasts & somet. even Cancer -
- tight & short shoes - cons. inability to much exercise
tight boots have induced a fit of the Gout -
- Linen D. Rush dissuades from its use - & in its stead
muslin & flannel shirts - The Roman armies by the
latter were always kept healthy - & our own Soldiers
& Seamen find their advantage in it -
- Cloaths may be too heavy - in which case make use of
Fur, raw silk - flannel hosiery - Eider down for bed covering

(15.)
Rules of Diet.

- . He that doubts and eats, never fails to suffer by it.
- . Eat less of meat than of vegetables
- . Avoid a mixture of animal aliments, such as fish &c. the most proper will be found out by experience only -
- . Eat often - and then make a slight repast -
Man was made to eat at all times -
- . Avoid sleep after a full meal, for the full stomach pressing on the Aorta, Diaphragm &c. disposes to apoplexy, Colic &c. if you sleep after dinner do not indulge it in a horizontal position, but in an arm chair -

- When to abstain from food -

1. When a little indisposed from colds [Macklin strictly observed this rule and thereby lived to an age of 100 years]
2. The quantity of food should be lessened during the prevalence of malignant fevers
3. When engaged in very laborious employments
4. Those enjoying much convivial feasts should fast once a week [D. Franklin whilst in France, lived on one egg during a day in every week. - he said Nature required a holiday to clean out her streets -
5. Before a surgical operation.

Inure the system to every kind of diet - even a little excess now and then is beneficial

He knows not what is a feast, who feasts sumptuously every day. -

Idiosyncrasies with regard to diet &c must be attended to. -

- Food should be well masticated
- Avoid the early use of Acids - the Nitric Acid is the least hurtful - take them thro' a quill -
- Sleep with your head warm [The French are particularly observant of this - they have very fine teeth]
- Wash the teeth after each meal -

an excellent dentifrice is made thus

- Pow: Bark & Charcoal $\bar{a}a$ \bar{z} mix them
- Myrrh - - - - - \bar{z} intimately
- Essence of Tamar - - - - - \bar{z}

- Children are more irritable than adults -
- Milk, the grains, vegetables & fruit are best for them
- The less seasoning they take, the better
- Give them butter sparingly
- Sugar is very wholesome - prevents worms also
- Let them eat much & often of bread
- Never let them taste ardent spirits

We must make exceptions to these rules where Children come into the world feeble - they should then have nourish-
ing animal food

- Old Age - ^(17.)

- May properly be divided into two stages - from 60 to 75 - and from 75 to the remotest age (decipitudo.)
- Wine is not the "milk of Old Age"
- Let very old persons eat often - Nature may at this season of life be gratified in diet - allow also diluted fermented liquors

(both internal & external)

I consider life as the effect of stimuli acting on the organs of sense and motion —
 the result of mere mechanical effects — we may as well give intelligence to the working of a beer barrel as to any of the operations of the body —
 it is always matter acting on matter —
 — We live in spite of ourselves —
 — We live by force —

- Excitability is the capacity of the body for being stimulated —
- Excitement is the result of the stimulus on the excitability which will be more or less according to the capacity of excitability
- Health consists in the due proportion of excitability to excitement —
- Disease is the disproportion of those states.
- There ought always say, Hunter to subsist a balance between the powers & action of every part. s.

(19)
Pathology - the doctrine of diseases -

from *wabos* & *loyos* -

Pathology treats of the causes, effects, seats & signs of disease - the causes are exciting, remote, predisposing and proximate - they act uniformly in inducing debility, thus inducing a state to be acted on by oc-
-cassional causes.

Debility is native, acquired, adventitious & chronic

1. Of the native - we all bring into the world more or less of native debility and with it a predisposition to diseases - this must take place in the womb and is created by the parents and particularly influenced during gestation by the condition of the mother -

2 - Acquired - by injuries in parturition - by improper washes, as wine, brandy &c. by bad milk or by an excess or diminution of it - by tight dresses - by neglect of cleanliness - by too close confine-
-ment to studies - by excessive quantities of Opium, by improper chastisement of Mothers & Nurses - by scanty allowance of food, then plays then debilitating them - by improper cloathing - and by falls &c.

In lieu of the Temperaments of Galen, we make use of the term Predispositions according as it is seated in the different systems — these are

1. the Languidic — seated in the Bloodvessels — arising from thin extensive exposure thro' the lungs & somet. affecting particular parts as the Uterus, Lungs &c. without influencing the whole system.

And by predisposition is meant an aptitude to particular affections of the systems in the body, or of parts in those systems.

2. The Hepatic, which particularly obtains in warm climates and in variable ones also — it manifests itself in occasional nausea, pukeing, diarrhoea and somet. in a sallow appearance of the skin

(21.)
The Nervous — the Hysteria is exclusively a disease of the nervous system.

The Muscular — with these, there exists a debility and unnatural irritability of the muscles — the individuals are restless — have a quick step — rest seems painful to them and they may be said to take repose only in activity — there is here a diminution of sensibility — Frequent Tetanus among the Negroes in the West Indies is owing much to this — they bear operations better from this diminution of sensibility and even converse with calmness during an amputation — these may be said to be all muscle

The Cephalic — this occupies a portion only of the 1st brain — in such — the slightest causes induce head-ache, apoplexy, vertigo, palsy, epilepsy, Hydrocephalus internus, &c. such may be said to be all head

The Phrenetic, occupying according to D. Gall the upper part of the Brain only — in these delirium is easily induced from slight causes —

the absence of mental stimuli is painful to them. —

this predisposition exists in entire families. —

such may be said to be all mind.

When the nerves are diseased the mind decays before puberty thus resembling says Dean Swift "a sword which being too large for its scabbard, cuts its body through" —

"He will never scratch a grey hair" is a common remark applied to those who discover a great precocity of intellect — they often pass suddenly into Madness or Fatuity.

Intestinal — prevailing in warm climates & in all ages, in the stomach as well as in the bowels —

such may be said to be all bowels.

Lymphatic this predisposition is evident from the celerity of action in this set of vessels
such may be called a map of lymphatics.

The Cutaneous is evident in the facility with which eruptions oc. take place on the skin — the effluvia of the thus radicant even at a distance will excite an eruption in some — This predisposition is sometimes partial in
.. such may be said to be all skin

we also observe a Lateral predisposition, existing on one side only as

1. in the Blood vessels shewing itself in heat, morbid pulse, diseased tongue &c. on one side only
2. in the Nerves
3. in the Muscles, in convulsions as Chorea St. Viti &c.
4. in the Brain in palsy & head ache of one side only
5. — Lymphatics in affections of the salivary glands by Mercury — 3 cases detailed
6. in the Skin as in cases of Erysipelas, Sweats, eruptions, yellowness, and great heat with coldness of the other side.
[Chas. Wm. Rush an ingenious Sculptor told Dr Rush [by way of explanation to this] that he had observed an obvious difference in the size of the sides of the head, shoulders, arms, bodies, legs, feet, hands &c. in all mankind — Dr. Rush thinks this obtains also internally —
• The Kidneys are also often larger on one side — particularly in some Cattle.

- a difference also occurs from exercising one side more than the other - the side exercised most gives debility of action - the other the debility of abstraction
[the playing on the violin produced in a gentleman of Carolina much hair on his right arm]
- the bones of one side are often peculiar
- Sleeping on one side more than on the other affects the Brain, muscles & nerves of that side
- sitting also with one side more to the light
- also with one side more to the fire
- these predispositions to disease are often local, as in the lungs, the uterus, single nerves, &c - the memory is often impaired whilst other faculties are unimpaired
- Sleep, hunger & thirst - menstruation, Conception and Parturition are preceded by debility.
- Perfect health appears to be as rare as perfect reason or perfect virtue
- Predispositions are often hereditary as ^{to} Gout, Mania, Consumption, Sore legs &c. & sometimes a whole family of children die of consumption & where the Parents have not been affected - so also of Hydrocephalus Internus.
- Predispositions are influenced by climate and also by the occupation - see Ramazzini on the dis. of Tradesmen,
- at puberty and in both sexes and at the cessation of menstruation, it is mostly seated in the bloodvessels & nerves.
- Diseases predispose to their return.
- In all impressions applied to the body we should find out the weak parts - i.e. - the predisposed -

. Dr. Degnan relates the cases of four boys - who over-
-heated themselves in the same degree and sickened at
the same time, but all took different diseases accordg.
to their several predispositions -

. The changes in the predispositions take place say once in
every seven years, giving rise to the difference of intellect
in the same person at different periods of life - and
with the morbid predispositions change also the moral habits
. The common degrees of health we enjoy, are like animal
life, kept up by force -

. The Sanguific predisposition exists more in Spring
The Hepatic " " " in Summer
The Lymphatic " " " in Winter
. The Intestinal Muscular & Sanguific exist most in Children
. The Sanguific and hepatic, most in mild life
in old age .

It is remarked that the Dysentery in soldiers presents the
same symptoms in all countries, from their enjoying the
same habits and occupations -

. We may observe the effects of epidemics in dif^t predispositions
. Certain vices appear & disappear thro' the dif^t stages of life

Of Debility

(27)

- Debility is temporary or adventitious — Fever and all acute diseases are the effect of this kind
- A debilitated system is primed for disease —
- When the system is under the debility of abstraction or of action, working without food, is like lighting a candle at both ends.
- Debility is brot. on 1st by abstraction of heat, exercise, diet & and the more sudden the abstraction, the greater the debility — it is now in the laxum state — i.e., debility with accumulated excitability — but disease is not now the necessary consequence — there must be an exciting cause and thus some very debilitated habits long escape disease by avoiding the exciting causes — the excitability is gradually dissipated by moderate exercise or gentle medicine
- 2^d by Action from the application of excessive stimuli to the body or mind — these predispose alike to disease —
- 3^d by the sudden application of excessive stimuli producing oppression and thus suffocating instantly both the excitability & excitement —
- Debility predisposes to disease more in the middle of the night and early in the morning
- Fever attacks often in the night than in the day from the accumulation of excitability and debility from the recumbent posture.
- The strictum state produces disorders — 'tis the rigid fibre of Boerhaave and the torpor of Cullen, existing without preternatural excitability — the stimulus of labour dissipates it — so does labour destroy the pabulum of disease if it be constant and uniform —

- Sickness is prevented also by avoiding rest after a long walk such is also the treatment of Grooms to their horses —
- A highly excited state of the mind or passions often prevent disease — Lomax says "Hottspur have we liene to be sick in such a busy, jostling time as this" —
- Active employments of mind or body — diseases coming on when they no longer exist — thus Soldiers in time of warfare are free from disease but seldom so when lounging in Camp.
- Disorders are often the effect of diseases badly cured — and where the causes of disease act slowly they produce obstructions — disorders are somet. brot. on insensibly
- Disorders are distinguishable from Diseases from their having no morbid action and in a diminution of irritability in the part affected.
- Diseases are kindly sent to reconcile us to death
- The pointed rod does not sooner attract the electric fluid than does debility attract Disease on the application of stimuli — but many people pass their whole lives in a state of debility without being roused into disease so long as the stimuli applied, bear due proportions to the excitability
- Atonia generates every form of Disease
- Oppression is removed by the abstraction of stimuli
- Frustration " " application of it
- Universal morbid excitement is impracticable & this applies as well to healthy as to morbid disease
- Great muscular excitement in Tetanus arises from the abstraction from the bloodvessels — the practice is here obvious — we must equalize the excitement.

Depression is the intermediate link between debility and disease and between it and disease there exists but a cobweb partition —

this state forbids action and calls for repose and by this repose, disease may be avoided

Reaction

Disease or Morbid excitement, or irregular action is partial and often in parts only in the same system as the pulse in one wrist or equal in both wrists with great morbid excitement in the heart and the pulse excited in some other parts of the body.

Disease usually appears in the following forms —

1st in Convulsion — of the muscles as in Tetanus & Hysteria
 " — the bloodvessels as in Fevers #
 " — in both as in Epilepsy

2^d in Spasm — of the muscles as in Cramp
 " " bowels " Colic
 " " Stomach " Gastrodynia
 " " brain " Head Ache & Aproplexy
 " " uterus " Parturition
 " " Trachea " Cynanche Trachealis
 " " Hepatic duct " Jaundice
 " " Skin " Shuddering —

Spasm is of two kinds — tonic or clonic
 the tonic is permanent — the clonic is not so

a Fever is a beginning convulsion says Hippocrates — 3

3. in Prematural heat - (30.)

external as in the skin

internal " Stomach, bowels, breast & head

4. in Itching, as in the skin, Arms, pudenda, navel
fingers

5. in an Acne dolorifica or transient pains of the
Breast, head & limbs - also on the "stitch
of the side, the Gout, Tic doloieux &c

6. in Supplicated excitements - overpowering both the
Blood vessels and viscera - Anemic somn. kills in this way.

- we must recollect that pain is only a symptom of
disease and not always an uniform one
- Pain like disease is an Unit.
- Pain is intermittent & remittent.
- The proximate cause of pain lies in the "solution of
continuity" of a part - or in the part being unduly
compressed - or in the nature of the part b^y altered.

31 Disease is an Unit.

I consider this the corner stone of all truth in medicine.

Like fire it will not admit of being divided.

I believe also, there is but one sin. "~~When man fell,~~
~~and that is inordinate selflove~~ —

"When man fell, he fell into himself" says

Disease is partial — it is also periodical and differs by
grades in strength &c

The usual termination of disease is in debility, disorder
or death

Local inflammation in all its forms is preceded by debility —

— The human body abhors debility. —

Ladder of Disease —

1. ———. Elevated excitement

2. ———. Debility

3. ———. Increased excitability

4. ———. Depression

5. ———. Disease

6. ———. Oppression or Suffocated excitement

7. ———. Prostration

8. ———. Disorders — or effects of disease

9. ———. Debility succeeding to the crises of disease

Intimate com-
— panions of
Health —

The effects of disease are different according to that part
of the system in which it may be seated

Pain is the excess of that stimulus which in moderation
creates pleasure — To produce pain the nerves & muscles
should not be preemployed —

Pain will not be felt where the mind is powerfully engaged;
Archimedes whilst engaged in mathematical studies, fell
from a wound he had received, but which he did not feel —

Robust men suffer most in pain (32.)

Women endure pain better than men — perhaps they suffer less. Pain is attractive. "Pars dolens trahit".

Error Sensus -

- Affections of the uterus generally give pain on the Crown or back of the head -
- Bile in the Stomach induces pain in the fore part of the head and over the eyes

Signs of Disease in The Pulse.

Galen first pointed out the necessity of attending to these —
The pulse is the dial plate of the system.

Dr. Rush has called it the Nosometer from νοσος & μετρον
1st of the Natural history of the pulse.

its medium frequency is 66 — and in health it is soft, open,
vigorous, free from all sense of resistance & beating at equal
intervals —

2. It is influenced by Age — in a child on the 1st day of birth
it beats from 130 to 140 — in the 1st year from 108 to 120 —
in the 3rd year from 80 to 108 and so on to the 7th year when it
beats from 72 to 90 and after the 12th it is the same as in Adults
3. In Old Age it is more frequent & full and is subject to inter-
missions and a regular pulse is in them often a sign of
disease —
4. By Sex. being more frequent in the female.
5. It is less frequent in savage life [of 10 Indians whom Dr.
Rush examined their pulses beat at 60 only]
In Trinidad the pulse of the Indians is from 55 to 60 and in
South America from 60 to 68 arising Dr. R. supposes from the
absence of mental stimuli — it is observed also that
Country people who have less mental occupation have less
frequent pulses
6. By Climate — in Greenland the medium pulse is 40.
7. By the height of the body — it is more frequent in short people
8. At different times of the day — it is lowest at 7 in the morning
stationary at 2. frequent then — less frequent about 8 in the eve.
frequent again about 12 at night — Then weak
9. By different degrees of light & darkness — attend to this in
febrile diseases —

10. By The sleeping & waking state - His lfp freq^t in sleep - arising from exhaustion of excitability and from absence of heat and light - motion - sound, and operations of the mind - soon after waking it is high but is soon reduced to its usual grade
11. by the position of the body - particularly the arm - it is reduced in frequency while it is uncovered
12. By food & drink - it is reduced by fasting
13. By passions & emotions - by Fear it is often reduced but soon after it becomes accelerated from the accumulation of excitability -
 . in Anger it rises to 104.
 . in Grief it falls below 60.
14. By Conversation, Exercise, Pregnancy as soon as Conception takes place - also from flow of menses - by Coughing, intense thought, even on the disease -
15. By Opium - by Mercury - by Blisters - particularly in the parts where they are applied and we must learn to distinguish them from the pulse of the original disease
17. By Constitution - it is somet. puturnaturally slow - we must inquire with regard to this - it is somet. puturnaturally ~~quick~~ frequent [Judge Peters' pulse is seldom less than 100 - perhaps arising from the great activity of his mind]

Morbid states of the Pulse. (35.)

Absence of sympathy in the pulse may arise from

1. Weakness of the heart -
2. Disordered state of the Artery at the wrist - ossification or idiosyncrasy
3. Large masses of fat pressing the Artery at the wrist
4. Accidental pressure of the muscles on the art. at the wrist -
5. An exhaustion or destruction of irritability of the Arteries
6. Partial or suffocated excitement
7. Cold, by its sedative action on the wrist -
- 8.

9. Insulation of disease in different parts - as the Lungs or Womb &c.

Dr. Rush mentioned a Case of his own where there was a total absence of pulse in both wrists, tho' no inconvenience was felt in the system. He had another case where there was no pulse to be felt in the wrists, temples or neck - the irritability of the Arteries was here gone -

D. Whytt mentions a case where the pulse was in health at 120 - rose to 180 in a fever and when the patient recovered it was again at 120

The Heart & Arteries may be compared to a sensitive plant. touch but one part of it and it is felt all over. - or to the bells of a High Priest, touch but one and they all ring -

The Arteries sympathize in Anemias - Capt. Hending's case

The same kind and degree of pulsation generally takes place in a viscus at a distance, as it does at the wrist.

But often the heart & arteries refuse their sympathy and
 even with themselves - but these may be compared to
 the variations of the compass, which do not at all de-
 tract from the nobleness of that instrument -

In a case of an habitual hæmoptysis being cured by
 a fever it arose from general morbid excitement being
 induced -

• Silly blood with weak pulse shews the internal parts diseased
 In inflamed parts the circulation is slower - the increased
action is a tergo.

• The Pulse is small in inflam. of the Stomach, because
 its arteries are small

• In inf. of the Lungs

• In "Colon" it is more full, arteries are larger there

• In the Brain it is putternaturally slow

• In the Liver

• In the Head

• Frequency of pulse consists in the number of strokes
 in a minute -

• Quickness, in the jet of the stroke itself -

• A frequent is always a quick pulse but not the reverse

• Frequency arises from irritation of the arteries

• Quickness " from the increased vigour of the heart

Morbid rareness in the pulse arises

1. From pressure on the brain

2. " Spasm of the heart

3. "

- a weak & frequent pulse generally go together. - - -

A depressed pulse is puternaturally frequent or puter^y. rare — it has interruptions also — it occurs mostly in the Plague, Yellow fev. Malig. fever, and pleurisy, arising from the force of stimuli oppres^d. below the point of reaction — it may occur in all diseases. — it will rise on depletion. —

we distinguish it from

1. from its presence in the forming state of fever and in paroxysms of periodical diseases when the pulse is no more excited than in ^{the} intervals —
2. its imparting after long felt a sense of tenderness (after various kinds of pressure.)
3. its occurring in morbid affections of the Brain, Heart, Stomach &c.
4. after depleting, in inflammatory fevers
5. occasionally with puternat. rareness + frequency
6. where the heart is partially dilated. —

Pulse.

(39)

It has risen to 220 & has descended as low as 9 or 7 —

1. is the depressed

2. the small & tense — it is corded or locked — Dr. Rush calls it the sulky pulse as its beat imparts a sensation of anger

3. Synochus fortis — is full, round, vigorous, frequent & quick but with hardness

Synochus mitis differs only in having nothing vigorous

4. Synocha — has the feeling a large quill would give to the fingers & is full, quick, frequent & tense but not round occurs mostly in Rheumatism, Gout, Hydrophobia &c.

5. Synochula — a diminutive of this — a small quill

6. Synochoid — a compound of the Synocha & synochus — partly tense & partly soft — feels as a split quill would.

7. Typhoid — a frequent and occasionally a full, round and tense — occurs in begg. of Sail & low states of fever.

8. Typhus — weak, small, frequent & without tension or fulness, occurs in low states of fever & in begg. of malign. fever

The Gaseous of Dr. Delmar, is full, round, frequent but very soft — 'tis a grade below the Synochus mitis — it sinks under the pressure of the finger — may it not be owing to air in an elastic state?

9. Hectic — it is rarely synochus or synocha — freely synochoid — often typhus — — quickness & frequency are essential to it, but it also occurs with varieties dependant on most of the preceding pulses — it is most generally typhoid hectic

2. Head. ⁽⁴⁰⁾ Unequal Pulse.

1. The hobbling pulse - 1 beat full, 1 or 2 weak & again full
2. where it passes suddenly from frequency to slowness and vice versa -
4. double pulse called discreto -
5. Vermicular or 'creeping' - small, frequent & serpentine the patient generally in a dying state -
6. Morbidly natural as in health - here there is generally great disease - it is a very bad sign -
7. Pulse of mere chronic debility - in Hypochondriacs
8. Anemic pulse is full, tense, tumultuous and jarring - Dr. Rush knew an instance of a Lady in whom there was a total absence of pulse for 36 hours, in consequence of eating 6 hard oysters

Directions for feeling the Pulse.

1. Never take hold of the pulse the moment you enter the room -
 2. Use all your fore fingers - your right hand on the left of the Patients and vice versa.
 3. Press the pulse gradually
 4. Feel in both wrists, where you doubt
 5. Let the Patients arm be free from pressure
 6. Not to feel with cold fingers or when the patient is agitated.
 7. Not less than 20 strokes should be felt in a difficult case - [The Chinese feel 49]
 8. in a particular case - shut your eyes & let there be total silence - dip also your fingers in warm water to render them more sensible - and suspend occasion of the action of feeling -
 9. The temporal Artery will impart more knowledge in brain diseases - it should also govern us in the administration of Opium, Steel, Pediluvium, Mercury & and we should learn to distinguish the pulse produced by artificial from that produced by nat. causes -
- See page 198 Vol. 2 - defense of bloodletting -

Preliminary
remarks.

(42)

{ Causes of Disease.

Idiopathic & Symptomatic — the distinction is not just and has led to many errors in practice — they are just the same in their symptoms and require the same mode of cure where the state of the system is the same — Diseases have been divided into acute & chronic — D.R. adopts these but w. prefer others —

Epidemics are those affecting whole communities nearly about the same time [Sydenham called them stationary as they arose from three causes]
1 vitiated air — creating the influenza
2 from bad provisions
3 from bad water —

Endemics are the offspring of causes obviously domestic — thus the Liver complaints of India.

Sporadic — solitary cases of diseases, but occasionally epidemic —

Intercurrents — Fevers produced by heat & cold and other sensible qualities of the atmosphere — as Anginas, Catarrhs &c.

Contagious — affecting the body thro' the medium of the air or person — as small pox, measles &c

1st Sources from the Air - operating
 1st by its sensible qualities
 2 by its insensible and extraneous qualities
 and 3rd of its sensible qualities which are heat, cold,
moisture, dryness, rarity and density
hot air exceeds 96°

warm air from 90 to 75°

temperate, bet. 75 & 65°

Cold below 32°

Cool between 65 & 32° -

in middle life from 62 to 65° is most agreeable
 in more advanced - a higher temperature is so
heat produces pleasure by its stimulating qualities and
 above this point is the departure from health

1 Positive effects of heat on dif. parts of the body -

1. On the Articular system, inducing depression & excitability,
 thus creating an aptitude to fever -
2. when not inducing a morbid sensibility of the
 nervous system - Creating Syncope & Hysteria &c.
- 3 - on the Muscles, increasing irritability, predisposing to
Tetanus &c.
4. On the Poecium - inducing sleeping in the day and
 wakefulness at night - also
 the Coup de soleil or Insolation inducing Phrenitis,
mania, apoplexy, vertigo, palsy, head ache - it is
unknown in Africa - but in China, 11,000
 were destroyed by it within one fortnight -

5. On the Mind - affecting it 1st with sprightliness - then with inascibility - then with madness finally with weakness of intellect &c -
6. On the Senses - it increases the sense of touch & afterwards creates a dullness of it -
it weakens the sense of taste and smell & also that of hearing - [a Frenchman lost his ear & taste for music by a Coup de soleil]
7. it increases the bile & its acrimony & disposes to obstructions and inflammation of the Liver
8. On the Stomach, inducing excessive appetite & afterwards a weakness of it - and in the bowels, cholera, diarrhoea, Dysentery &c -
9. On the skin - in eruptions - buboes, carbuncles, peckles, little boils on the faces of children - induces a copious sweat - & somet. a Dryness of the skin - this last generally is seen in the Hepatitis of the East Indies -
10. it invigorates the venereal appetite - Fish feel its influence more than any other animal

The Medium heat of a Country may be known by the temperature of its water under ground —

- heat lessens the density of bodies
- it creates a brown colour of the skin [perhaps light is the c:]
- in Göttingen conceptions are most frequent in March & May —

— Relative effects of Heat. —

Are lessened 1st by its b.g. uniform & dry — then most healthy —
An Air totally devoid of moisture is scarcely fit for life.
Stove-rooms are unhealthy — from this circumstance we therefore produce moisture by placing water on them

2. The morbid effects of heat are much lessened by time and habit — hence West Indians bear our winters for the 1st & 2^d year better than our natives, from having been subject to its excess and

3. by winds from a dry & healthy country — thus carrying off the heat from the body —

4. Motion lessens its morbid effects — promoting perspiration

5 - a Strictum state obviates in a certain degree its morbid effects — hence people in the decline of life suffer less in very warm climates

6. by Abstinence — or by a Diet of vegetables & water —
[the Brahmans have always cool hands.]

7 it acts differently on dif. ranks & professions

8. it acts as it is applied to the whole or part of the body
[Dr Rush once saw a muscular Rheumatism in a young Lady by sitting with her back to the fire. —
also a case of Hemoptoeis from a person sitting with his back to a heated stove all day]

- Relative effects, incuating the morbid effects of Heat
1. Previous exposure to Cold — a green Christmas makes a fat church yard in the Spring —
 2. The morbid effects of heat will always be in proportion to the intensity of the cold that has preceded it —
— sudden heat to a frozen limb for example —
 3. Moisture combined with heat has greater effect — as in damp cloaths to the body — and in the Atmosphere the putrid exhalations are longer retained —
 4. Our bodies previously impregnated with miasmata
 5. Where it is alternated with great cold —
 6. Absence of wind disposes the body to disease —
a season "sine aura" will be a sickly one says Hippocrates
 7. Very old people & very young also suffer when the nights are unusually warm. — Children are the ^{1st} sufferers in the diseases of hot weather —
A moist temperate air has fine effects on the skin, making it white red — witness the complexions of Germany, England, Ireland &c.
Warm countries are more healthy than temperate or cold ones — they were chosen for our first Parents and such was also the residence of the favoured Greeks, the Fathers of Science and of the Arts —
they also favour population.

Morbid effects of Cold + 1st of the positive

It acts as a sedative — this I infer 1st from the debility ensuing and from the paleness & contraction of the skin —

2^d from its effects on the pulse [the pulse of the Quaker is seldom more than 40]

3^d from the increase of excitability, induced by sudden & transient colds —

4^d from its effects in certain high toned diseases — acting in the same manner as bloodletting, purges and low diet —

Does pain arise from cold? It is from the abstraction of heat thus allowing the parts to contract, whereby there is pressure on the nerves — 2^d from a rapid efflux of heat to the parts + 3^d from a derangement of the natural functions of the part.

The Cold bath acts in two ways.

1st by force — mere mechanical stimulus —

2^d it abstracts heat & reduces excitement and when we come out the exertion & the warm air act in increasing the excitement —

Cold water drunk soon produces sweats — it may be asked how is this, if not by its stimulating qualities —

I answer NO — The cold water reduces the excitement to the sweating points —

[Goose flesh] — Ectis Amerina — this is probably its natural state — and heat gives it smoothness — When the Nose and eyes "run", it is not by stimulus of cold but by defect of absorption —

The revival in Syncope by the affusion of cold water is from the force & weight of the water, or from the sympathy between the skin and lungs — the lungs immediately feel it and take up the action — the blood being thrown to the heart & lungs more copiously.

~~On the skin~~ — The red colour of the skin from the application of cold arises from the relaxation of the extreme vessels — the blood then rushing in. —

Finally — As moral evil results from an absence of virtue

as darkness — — — — — of light
as fear — — — — — courage
as weakness — — — — — strength

So does Cold result from an absence of heat a positive quality

- Its Morbid effects are 1st Debility and excitability in the Arterial system, disposing to fever & also pain in the breast when intense — and somet. Hemoptysis
- 2nd On the Nerves ^{inducing} ~~exciting~~ torpor & pain, somet. weak'ning and destroying sensibility
3. Languor in the muscles & indisposition to vol. motion
4. On the Brain, when intense produce stupor, coma & death,
5. Debilitating the faculties of the human mind.
6. On the Senses, dulling the senses of touch, of taste & vision
7. On the Appetite invigorating it, especially for Animal food
8. On the Skin inducing cutaneous eruptions; increasing the secretion and discharge of urine — rendering sweating more difficult and if applied for a long time creates as dark a colour as does heat. it produces also sores & ulcers on the skin —

9. it weakens the venereal appetite
10. it contracts the solids of the human body — for the reduction of size in the human body see the extreme parts of the north of Europe —

Relative effects diminishing its morbid effects.

1. These are lessened by its uniformity — Dry & cold winters are healthy — Diseases may be said to be locked up in Canada and Russia during the winter — also in Norway & other extremes —
 2. By time and habits — witness the insensibility of the face & hands — but not ^{so} of the feet —
 3. By the nat. insensibility of certain parts — the lungs ^{1st} — the head next — then the hands & lastly the feet —
 4. By a laxum state & in nervous people — hence hysterical people suffer least from it —
 5. 'tis less hurtful to children than to grown persons.
- Causes increasing its effects

1. The degree of heat — Brydone says that once at Naples after the Siocco's prevalence it was painfully cold at 80° the thermometer falling from 112° —
- Moseley says, Cold is the cause of almost all diseases in hot climates where those diseases depend on climate — The longer we have been exposed to great heat, the more insensible we are to cold —
- By suddenness of alternation of heat & cold to the whole or a part — cold water poured down the arm —

A current of air against the neck &c. have produced serious disorders as inflammation, trismus &c. a ribbon left off from the cap has produced a Coryza and even the leaving down the heel of a shoe - these effects arise from the loss of the equilibrium of heat in the body.

- By Moisture - it carries off the circumambient heat of the body as in Holland & England - The Russian Sailors felt the cold more in Plymouth than in Russia. The Sciophula in England is from the cold & moisture.
 - More felt by the old than young -
 - More felt by Drunkards
 - By the Stomach being empty - cold worse than -
 - When asleep
 - Invalids with chronic diseases &c. - are more hurt by it. The Stricture state feels it most also -
 - It is more hurtful in Summer & Autumn when the body is impregnated with ^{putrid} humors & miasmata
 - The whole brute creation groans under it
 - The Cataract is unknown in Russia in the coldest weather - in consequence of their having double windows, double doors, fur Caps &c.
 - When any of the causes mentioned are protracted & uniform they cease to be hurtful - they are also remedied by constant labour & warm cloathing.
- The Cold Bath should be at 50°.

Cold may be considered as the exciting cause of al-
-most all diseases -

(51.)
Of its Rarity & Density.

Excessive rarity induces palpitation of the heart, sickness, loathing of food, quick and weak pulse, great thirst, sleepiness and great muscular weakness [Humboldt at the top of Chimborazo - 20,000 ft. above the level of the Sea - had hæmorrhages at the nose, eyes & lips & pain in the breast with sickness at stomach - and at Padua two Gentlemen ascending in a Balloon, Mercury at 12° were affected with a pleasant sleep - when it was 9° they became swollen and when at 8° the Balloon being now $6\frac{1}{4}$ miles high, it burst & awoke Mr. C. - Excessive density of air gives rise to apthalic congestions.

Influence of air within the body, called "gas animale" by Dr. Vidal - he mentions an instance of a young man who after an excess in venery emitted for some time after air only thro' his nostrils.

Remote causes of Disease from the

Sensible qualities of the Air.

- Dr. Rush thinks June the healthiest month in Philad^a
- The summer is the least mortal in England
- The winter is the most so
- The Autumn is the most fatal in New York
- The winter is the least so
- There falls more rain in the United States than in any part of Europe — The greatest quantity there falls in Europe is at Vienna, being 42 inches — but at Charleston there falls 72 inches.
- Trees emit $\frac{1}{3}$ more vapor in a given time than is emitted from the surface of smooth water —

Invisible qualities of the Air

- 1st Hawk exhalations [Koimo-miasmata] from dead and putrid animal and vegetable matter #
- 2^d exhalations from living bodies in a state of disease [idio-miasmata]. # on Cabbage, Potatoes, Onions, Indian meal, Hemp, Old books, Green wood
- 3^d Matter producing the influenza bilge water - Stagnant -
4. Contagious - rain water - a duck pond
5. From lungs when diseased a Hog-sye - weeds cut down & lie
6. Carbonic acid gas.
7. Hydrogen gas
- 8
9. Harmattan wind
10. Vapor from Springs
11. Air of a Stove room
12. Sulphuric acid gas
13. Odor of flowers & spices
15. particles of sand
- 16

17 Inflammatory constitution of the Atmosphere.

1. Koimo miasmatic

its essentials are 1st dead matter - 2^d heat, as most effect-
-ual in promoting putrefaction - 3^d moisture is essential
to the production of marsh miasmata -

Sometimes in Holland they check the Bil. fever
by inundating their low moist grounds from which the
exhalations spring - Those exhalations are worse which
arise from marshes of salt & fresh - the mixture is bad -

- Marsh miasmata, most noxious in the morning & evening.
- Marshy and low grounds when perfectly dry do not

produce fevers — and when fevers do occur where the ground is apparently dry it is most likely there is water below that affords the moisture —

- It is essential for the production of fevers that the matter be in a state of putrefaction — and even these are sometimes insensible to the sense of smelling —
- They may remain in the body without bringing on the fever, from a few days up to 6 months — and if the miasmata does not lurk so long in the body as many months it at least leaves a predisposition to fever left by this peculiar stimulus —
- That miasm which produces Yellow Fever in the West Indies in a new comer produces only sickness and bilious vomiting
- Habit influences the liability to their operation much & lessens their effects — Old people accustomed to them sicken & die when they go to a more healthy country
- It is known to have extended to nine miles distance
- It is destroyed by rains, black frost, high winds and intense heat which dry up the sources —

The manner in which they act on the body

1. On the arterial system inducing Yellow Fever and the highest degree of the Plague
2. producing the Inflam^y. Bil. fev. the 2^d grade
3. " Mild Remittent — — — 3^d grade of Plague
4. Intermittent fever
5. Chronic fever & lastly Febricula —

2. in the Stomach - inducing sickness & vomiting,
called a gastric fever by the French -
3. in the Bowels causing Dysentery or Intestinal fever,
Diarrhoea - Cholera Morbus -
4. in the Liver
5. in the Spleen, inducing congestions, enlargements & disorganization
6. in the Kidneys & Lungs, - inflammation & obstructions
7. in the muscles, nerves, Brain & mind inducing
apoplexy - and madness -
8. in the lymphatic glands & gland: system - inducing
Dropsies and glandular swellings
9. in the mouth & throat - sores & ulcers -
10. on the skin inducing Prickly heat, Erysipelas & Chronic
eruptions
11. Local, as Ophthalmia, pain of jaws, ears, back &c.

Causes of Idio-miasmata are

- 1 Want of cleanliness, - linen garments are the worst -
- 2 Confinement in a close room or in a jail -
- 3 Foul odour from the body of the patient
- 4 From strangers suddenly coming together from droves of Cattle
- 5 More frequent in time of war - depression of mind favors
its action - washerwomen often take fevers from foul
cloaths, to prevent which, have them previously well aired -
- a servant took the fever from wearing round his neck a
stocking his master had worn during his attack -
- A man from the West Indies communicated it by wearing
his Coat - 3 mos. after he had arrived -
- Fevers from these causes are more active in winter, than summer

6. low rapid vegetable aliment

7. putrid animal food

8. putrid human excrement

it is chiefly derived from perspirable matter stagnating on the skin

Contagion is of various kinds -

Secuted contagion - as in Small Pox, Measles

Excuted contagion - as in Dysentery &c. - the excutions of these produce others also, of a different nature -

Specific contagion as in Small Pox, Measles, Syphilis, Itch, ring-worm -

Infectious diseases are Vaccine, Chicken pox - Whooping Cough
Vapours & Fumes -

Carbonic acid gas tho' in the Homoeo, a Cordial yet in a large quantity inhaled affects the person with giddiness, nausea vomiting, vertigo & death - it acts specifically on the lungs - it exists near the surface of the earth and thus often proves fatal to animals -

[Bruce says that in the town of Senar the air is fatal to animals & that this very soil is favourable to the growth of rice & millet - but the Lemon tree will only grow and flower there - the air on the Sciota is fatal to ~~deer~~]

Hydrogen gas arising from ponds of stagnating water &c. and in mines, where it is called Choke-damp -

Harmattan or Samoon winds - they pass over bituminous beds abounding in Sulphuric acid which the sun acts upon.

Vapour from Earthquakes - the 7th June 1692, 3000 persons died of a fever, after an earthquake - the smell was very offensive -

Springs often emit offensive vapour - in Kentucky, after an earthquake a spring of pure water, emitted Sulphuric vapour.

- Fumes of Coal in large towns
- Close non stove exciting headache in some - languor in others — also the effluvia of art. factories —
 Brydone accounts in some measure for the wickedness of the Neapolitans from their inhaling the sulphurous fumes of the volcanoes —
- Particles of sand - flour, small metallic particles, powder of gypsum affecting the lungs — the grinders of needles are particularly subject to consumption
- Perfume of plants giving the headache &c —
 The pollen of plants also — in Kentucky it often produces Ophthalmia —
- Smoke of wood has often this effect.
- Vapours from mines [Birds flying over the leaden mines of Scotland uniformly fall into them on every day but Sunday, on which day the labourers cease to work and the air regains its purity
- An inflammantory constitution of the atmosphere — this exists independently of its sensible qualities & at all times —

Human miasmata adhere to cloaths &c. for a long time — also to wood — Brick & perhaps Stone walls. Wooden Hospitals retained the infection for 5 months — but it does not adhere to white washed walls or to ground floors — see Marshall "Saxe's reveries" —

- Persons highly impregnated with vitiated perspiration often occasion diseases in others tho' they themselves be not diseased — [Rowland Jenkins, a Convict from the Jail in England communicated disease to 500]
- Persons have handled poisonous plants & communicated the poison to others while they escaped — [A man in Jersey]
- Persons infect themselves by confining their own perspiration
- Feeble & debilitated persons are most liable to fever fr. this source
- Pregnant women and those having abscesses gr. escape it from the stimulus of distention & of pain, but when these are over they usually take it
- 10. Depression of mind assist its operation & also predispose to it
- 11 Animals

Human miasmata is seldom communicated more than 10 feet — stand between the current of air & the Patient — when exposed to morbid matter, close the nose for it has close communion with the Brain, and hold the breath for a short time —

Its effects 1st in the Sanguiferous system are Typhus & chronic fev.
2^d in the nerves — stupor. in the muscles, tremor, — head delirium, in the bowels, dysentery

Difference of the two. (60.)

The Idio-miasmata prev: in cool & cold weather

- affects debilitated people & comes on gradually
- pulse is sl. above the typhoid action & heat moderate
- functions of brain, nerves & muscles impaired
- continues from 10 to 30 days
- it is checked by warm weather — These fevers are the Jail fever — the Hospital do — Camp fever — Malaria do Typhus do &c.

The Koino prevails in the summer & autumnal mos. and in warm climates

- chiefly among robust habits & suddenly —
- comes on with sickness & vomiting — obstruction to the secretion and excretion of bile
- functions of the brain &c. are much less impaired
- pulse is synochus mitis or typhoid — rarely chronic
- it is never contagious except when of a chronic form
- and it is allayed by heavy rains high winds & frost
- its synonyms are Yellow Fever, Bilious do, Int. fever.

Remittent & Autumnal fever —

Of the matter producing the Influenza.

This is an atmospherical disease, not a contagious one.

- it often induces Abortion in pregnant women —

Of the Laws of Epidemics.

and their laws

Epidemics lay hid in night — God said

Let Sydenham be — and all was light

1. all epidemics are more or less affected by the sensible qual. of the air — with the exception of the Influenza which is nearly the same in all seasons &c.
 • Rapid vegetables & unripe fruits will dispose them to fall on the bowels
2. No two epidemics can affect the bloodvessels at the same time
3. When two or three appear at the same time, some [#]one predominates & the others blend with it — there seems a kind of Monarchy in Epidemics for it imposes its livery upon the others — even a wound has taken up the reigning epidemic — see Clegdon, Stoll & others —
 A Young Man in Germantown
4. Miasmata of all kind act primarily & chiefly thro' the Brain & Nerves & are insensive in the lungs until the Brain & Nerves become affected.
5. The reigning epidemic somt. chases away all others & when this disappears, inferior ones somt. chase away more forcible ones — how is this? By this law of habit — that the system becomes so accustomed to the reigning disease as to feel no longer its influence when the other comes in.
6. They appear in great variety of forms & character —
 - 1 in dif. degrees of force
 2. the same epidemic of the same force presents different symptoms in dif. years

3. epidemics from the same cause affect diff. parts of diff. people
 - 4.
 5. epidemics somet. come on with great force and go off gradually and change. Their type in every kind of weather and even in the same day they vary - see Botallus, Lining &c
 6. epidemics somet. come on with great force & suddenly disappear with great changes in the sensible qualities of the air
 7. the same epidemic is diff. in diff. parts of the Country.
 8. they are somet. local in large cities.
 9. they somet. attack only certain people
 10. they somet. affect persons of one colour only - Indians and Blacks often escape
 11. they affect persons of one age only - somet. children alone & somet. adults & children at the same time
 12. Somet. affect one sex only or chiefly - The Male only fell in the plague at Derby - in Italy the Yell. Fev. in Cadiz carried off 5810 men & but 1577 women in the year 1800 in Seville it carried off 11,000 men & but 1500 women
 - 13.
 14. They somet. affect members only of the same family
 15. Epidemics affect all conditions, all colours, both sexes, all ages and all ranks -
 16. They affect the human species particularly - but they also affect Fish & somet. Cats, Dogs & Horses
- Authors say the same remedies will not answer in epidemics of diff. years, tho' of the same nature -

18. Epidemics appear for several years — then disappear without any obvious cause —

19. They do not succeed each other in order —

They seem to annihilate each other

Diseases assume new forms from improper treatment

Phenomena accompanying Epidemics

1. in the Atmosphere — it is unusually dry or hot or wet or calm or there are high winds
 2. The diseases preceding them are always more violent — and diseases following them partake of an inflammatory nature
 3. a disease among Bats has often preceded epidemic dis.[?] on the 2^d day, they cease to emit electrical sparks — the House fly disappears in the Yellow Fever, but the common insects increase, so do mosquitoes
 4. in the vegetable kingdom many trees emit a peculiar smell and drop their leaves & their fruit is small knotty and poor
 5. in the Human body — the pulse is puternaturally slow or frequent or weak in health — Women are more apt to miscarry than —
- Study Epidemics every year, every month, week, day & hour

Situations influencing diseases —

1. of the Country — a new Country is always healthy — the first clearing a country is a signal for bilious fever if by this there be exposed to the Sun a large mass of wet ground
2. Towns & Cities are the Jails & Graves of human nature
 1. by impure atmosphere
 2. by the confinement of animals & vegetables there can't forced by strong manure dispose to putrid diseases
 3. The water rec^d thro' filthy media — dispos^d to bowel complaints

(64.)
in large Cities 1 die in from 19 to 22 - in Villages 1 in 50
in London $\frac{1}{2}$ die under 3 - in Yorkshire $\frac{1}{2}$ live to
be 41 —

• Dysentery is less common in Cities — in Princeton the
Dysentery once attacked the Students but not one from the
City was affected — Their bowels were not predisposed

3. Nature of Soils

4 Situations, a mountainous one most healthy

- a situation near the Sea shore predisposes to Pulmonary
disease but not so the Salt air when at a distance
from land — Scorbatic patients often die "on sounding"
- residence in Cellars — in a Hospital — in green
wooden houses — in fresh Stone houses —
- a sink in the kitchen &c
- effluvia from Privies near a House
- do. from a hog sty — a duck pond &c
- a decayed house — want of cleanliness
- small and smoky rooms
- being too closely surrounded by trees
- the unwholesome water consumed —

• Suspect some of the above causes where you find
a family continuing long sick [a Clergyman in
New Jersey had a fever in his family for 20 years which
did not leave them till one of these causes of impurity
was found out and removed —

5. Change of situation is favorable even to those leaving
a sickly situation — new impressions exciting thus the
dominant miasmata.

- Old people removing from a low to a high situation
6. Thunder & lightning often produce death - also mumps - it more generally produces terror &c. - it seems as if some were born and grow up with a kind of Thunderphobia - great debility being always produced by that phenomenon - Thunder & lightning by altering the temp: of the air somet. produce Cholera & Dysentery -
- an epileptic fit was induced in a boy whenever it thundered - it produces headache in some - The Deaf seem sensible of an approaching Thunder st, by peculiar contortions of his body -
7. Sound in excess as the firing a Cannon - sound of trumpet, ringing of bells - They have produced abortions & relapses -

The Heavenly bodies.

1. The Sun - excess of light producing inflam. of the eyes - also Nyctalopia
2. The Moon - on the animate & inanimate creation oysters are said to be fat at full moon

Influence of the Moon in disease -

1. on Fevers - They are more malignant when near the
- Mosley says Hemoptysis returns at the change & full moon
- Dr. Rush saw an instance of paroxysms of Gout at return of and at full moon
- Madmen suffer paroxysms oftener at full moon

Epilepsy and Asthma then the lunar influence seems to be also then more troublesome

Dr. Mosley says, that more people die 3 days before and after the full moon and at it than at any other time -

• Whence its influence? Chiefly from the greater or less proportion of light reflected from her, acting on the body variously as predisposed -

Eclipses of the Sun & Moon

- Lord Bacon used to faint when the Sun was eclipsed
- Dr. Grougar says that 24 British Soldiers were attacked with Intermittents at an eclipse of the Sun
- was not this from the sudden abstraction of the stimulus of light and from terror also? -
- The body feels the Equinoxes much - sudden variations

Plan. —

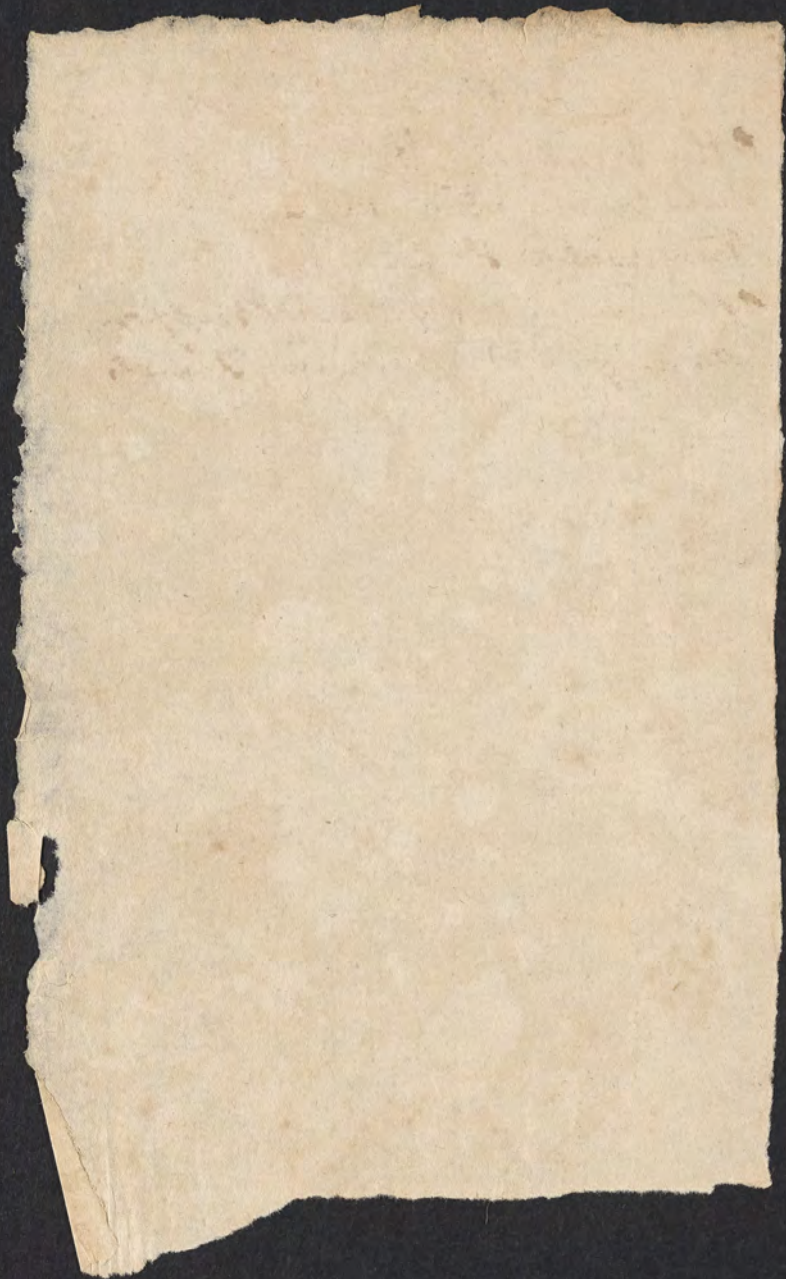
after breakfast Horace

Then Rush, till 12 —

Then walk &c —

after dinner read in Buffon

at night Anachronis Travels



(67.)
Influence of Climate -

1. By its quantity - distention of the Stomach in -
-during Apoplexy &c.
2. too much nourishment tends to plethora - Apoplexy
Palsy and Obesity - but labour destroys much
of its injurious tendency.
3. too little nourishment induces atony of the whole
system - famine accumulates the excitability of
the system [The Lion roars when pressed by
hunger - he eats 20 lbs. of flesh a day -]
Hunger imparts strength to some, from the desire
of life &c it creates -
4. Unwholesome qualities of food - Fish alone pro-
-duce Lice & particularly the Roe, also Itch & Leprosy -
animal food alone produces fetid sweats itching of
the skin - scurvy &c. Diarrhoea Dysentery & Hemorrhages.
Domestic and wild animals differ in their diseases
an overworked animal causes disease -
5. Vegetable diet alone, induces universal weakness
and at 1. irritability of mind - 2. dropsical swelling
3. Dyspepsia - 4. a deficiency of the Venereal appetite
5. it lessens the heat of the body - 6. lessens the size -
2 lbs. of Rice forms the daily sustenance of a Chinese
peasant "No eye has ever seen such scarecrows" Shakespeare
Cormaro lived until 60 on 12 $\frac{1}{2}$ of meat & 13 $\frac{1}{2}$ of water per
day & on making a slight alteration he lost both his
health and temper -
- Fasting increases the vig. & activity of the fac. of the mind.

(68.)
• Milk causes sour eructations - sickness, head-ache
to those unaccustomed to it

Circumstances rend f. Aliment unwholesome

1. The Manner in which cooked.

2. its being at too long intervals

3. its effects should be varied by exercise according as it be
animal or vegetable

4. in large quantities after long fasting [Otway thus died
from a loaf of bread after five days fasting

5. sudden transitions from animal to vegetable & v. versa
often induces great debility & always costiveness - the trans-
-ition is worse from vegetable to animal food - Case of
a man who after living on vegetables 13 days was
perished by animal food -

[Mr Bruce after 2 mos. living on veg. diet, painted at the
smell of animal food -

[also a Case of intoxication by an Oyster in a man
after long eating vegetable food -

6. By improper mixture of aliments - This is a fruitful source of diseases - in Chronic complaints dine on one dish only.

7. Being taken too hot or too cold

8. Novelty often disorders the Stomach

9. As to its indigestibility - it lying some. for days and weeks in the Stomach

10.

11. b.f. cooked in an unwholesome vessel - Lead and Copper ones are the worst -

12. Unclean vessels

13. The Animal's excretions & 14. its aliment

15. a fresh or salted state

Salted meat in moderation & with vegetables is not unhealthy - There are in families idiosyncrasies often hereditary with regard to aliments - Diseases induced by Condiments - & 1 by Salt -

• The Magicians & Caribbees know it not -

• Scurvy is the principal disease induced by it.

Vinegar in large quantities induces dyspepsia, gastrodynia and paleneps - Gout also in cert. predisposed habits - it also destroys the irritability of the Stomach.

• Mustards in excess induces gastrodynia & gastric diseases - eat but now & then of it - or eat it in small quantities

• Sugar in great quantities is apt to produce dyspepsia &c -

Spices apt to induce dyspepsia (70.)

an enlargement and induration of the testicles
among the nobility in Africa is from their excessive
use of Cayenne Pepper -

Therapeutics.

This may be called the Philosophy of the Practice of Medicine.
It consists in the cure of disease and the relief of pain.
It is divided into 3 branches

1. The Curative
2. The relieving of such as we cannot cure - the rendering life comfortable and often the prolonging it.
3. The lessening the pain of dying and thus smoothing the passage out of life

All remedies are intended to act by increasing or lessening sensation & motion or in giving action a new direction -

Rules to be attended to.

1. Consider the Country, City, County and even villages where the patients reside for the diseases of warm & cold climates require very different treatments, as do also the diseases of valleys and mountains -
2. In setting out then be independent of British Books & British Universities as guides in American diseases and never lose sight of the climate & peculiarities of your own country
3. The Season of the year - Vernal until July - Autumnal till February - heat & cold, moisture and dryness must influence our prescriptions
4. Never for a moment lose sight of the law of epidemics - of their power & influence - their varieties - their difference in diff. years & adapt accordingly your remedies -
5. Learn to discriminate an epidemic from a local disease
see Sydenham -

5. Recollect that old endemic diseases are frequently succeeded by new ones from changes in seasons, diet, habits &c.
6. National Predisposition should be studied — as Diet, habit, manners &c. & even amusements & intellectual habits often determine the nature & habits of diseases [the swelled leg is an endemic of Barbadoes]
This rule is of great importance in an army where there is so great a variety — The New England men in our Revolutionary Army were all affected with Nostalgia & depletion was forbidden to any extent in them —
7. Forms of Government & Religion as these have much influence thro' the passions
8. Ranks in life, their diseases differ much
9. Occupations, influencing their diseases much & moreover their cure — and in the exercises prescribed for them oppose their accustomed exercises —
10. Individual predispositions should be attended to in all our prescriptions — they all require a specific variety in their medicines — the medicines that will cure one man may kill another — never for a moment lose sight of this
11. Attend strictly to Antipathies & Idiosyncrasies ^{chronic diseases} & to habitual
12. Habits of diet should be known and attended to both as to quality and quantity — this remark applies equally to medicines
13. Inquire into the diseases of their ancestors & look beyond the 2^d generation — in Greenland Gout & Chadsess often appear in the 4th generation after passing thro' the 2 first — thus
14. Do not overlook filial diseases { resembling a river in a pipe
which rises in one country - dis-
appears in another & appears
again in a third —

- (73.)
15. Inquire into the habitual acute diseases habitual remedies — this rule particularly applies to venerection
 16. Attend to the ages — they influence the choice and quantity of medicines — under dentition Children bear larger doses of Calomel than Grown people & Children often recover from symptoms that in adults are usually fatal.
 - All diseases of the Bosom are more fatal in the decline of life —
 17. Sex — the force & symptoms are much influenced by Pregnancy, Menses &
 18. Find out if there be an intemperate use of Tobacco — of drinking and eating, of love, debt or guilt — The disease we must know these from friends enemies and cure, by the wisest means of medicine reason & religion —
 19. Never lose sight of the exciting and remote cause of disease, in order to remove them. — also to judge of their force and nature —
 - look even beyond the month to find out undigested aliments — for it has produced dyspepsia 5 months after taken —
 - in 1770 & 1771 this City contained 25,000, the deaths were ann. ¹⁴ 12 + 1300
1812 " " " 100,000 " " " 1345
thus in 41 years ~~sixty~~ deaths have diminished one half
• among other causes may be assigned 1. the disuse of heavy supper
2. of prunch at 12 o'clock 3. of sitting out in porches after night
and from the introduction of river water
 - Incurable chronic diseases (those diseases we cannot now cure)
often guard us from acute diseases — we should improve this on
our patients —
 - Twice the quantity of Bark is necessary in the W. Indies as here —
 - Become Students every year of your lives — End

Some of the Diseases improper to be cured.

1. Eruptions about the head & behind the ears of Children without substituting a Diarrhoea in their place -
2. Bleeding Piles in old people &c without substituting a vicarious discharge - it is also improper in sickly seasons.
3. An Intermittent fever sh^d not be cured when it succeeds Palsy, Epilepsy, Mania &c Dr. J. used to send his Maniacal patients to a Marsh in order to get the Int. fev. and thus often rid them of the Mania -
4. Gout should be cherished in the extremities when it succeeds Melancholia, Madness, Bowel complaints &c
5. Rheumatism sh^d not be cured when it succeeds Melancholia or Madness
6. Tetters & Chronic sores in old people sh^d be cautiously removed - they are often the means of prolonging life
7. An old & chronic cough sh^d be tolerated in an old person - the system requires the pump of coughing to get rid of the mucus collected in the Trachea &c
8. When Ascites is of long continuance, tapping should be resorted to with great caution
9. An habitual sweating from the feet should not be checked too suddenly
10. a Diarrhoea succeeding a headache sh^d be checked with ^{caution}
11. a Gonorrhoea benigna should not be checked when it relieves other diseases - it suspended Consumption in a W. P.
12. The Itch should not be cured when followed by Hypochondriasis
13. Certain pains with but little disease sh^d not be removed - these pains sometimes prevent the extinction of life - as in Gout &c. in all these diseases, time, nature, accident, change of native place &c often effect a cure when prudently attended to -

Are there such things as specific medicines? No — but we admit local stimuli acting more on one part than on another — they act herein mechanically.

How far should Nature be trusted in curing disease? read from 35 to 38 page of vol 1. of Inquiries on the Diseases of the Indians —

Disease should seldom be left to Nature — I would advise you therefore when you enter a sick-man's room to treat Nature as a noisy Cat or dog turn her out of the room & shut the door upon her — Aid to be derived from Nature's indications.

1.

• Always study Nature — sometimes follow her. —

• her indications are useful in light indispositions — How far may longings be indulged? — if Nature be much deranged in her system we must not yield to them; but where they appear to accord with the state of her system, then we may allow them.

• In considering diseases it will be important always to attend to the three following things — viz:

1. Predisposition
2. The disease itself
3. Its symptoms

For in inflammatory fever without knowing the predisposition we often deplete too much. & by prescribing for symptoms only without attending to the disease we let the Patient perish, while we appear to relieve

the symptoms —

Of the Nature of Medicines -
 They are quick or slow poisons -

We must discover by faithful observation what medicines
are improved by combinations - and the same
 medicines act differently from a difference in the mode
 of their preparation; as Opium somet. when laudanum
 will not - & an old Opium pill somet. when a new
 one will not

• also different in powder and pill - Iron best in powder.

• also of concealing the medicine when obnoxious to the
 patient and when he is of weak understanding -

• a new medicine or art. of diet sh^d. seldom be given at night.

"When you are doing well in a disease do not wish
 to do better" - do not endeavour to precipitate
 the cure -

• avoid some medicines that are obnoxious & harsh -

• attend to economy in your prescriptions and to the
nature and condition of life

• attend to neatness in your medicines - they influence much
your reputation and success in practice

• It is a high act of humanity & kindness to endeavour
 to please the palates of the sick

Optima Medecina saepe nulla medecina

This is to be observed

1. When life is suspended by a single thread
2. When disease is reduced to the level of the operations of Nature
3. When we wish to begit an exclusive reliance on exercise diet, cold air &c. — all these consid. are highly important
4. When ignorant of the precise nature of the disease — watch your patients however that they do not take quack pills

Poison pills may here be given

- Medecines should not be always laid aside when they do not appear to do good — they palliate many chronic complaints that cannot perhaps be cured.
- Divert your patients from self attention — but great judgment is necessary here — [Cullen, Forthugill & Hebbenden were celebrated for that.]

Keep up the spirits of your patients — despair is the Counter-current.

- When patients refuse your prescriptions do not forsake them but combat their prejudices.
- There is great advantage from the Physician's sitting up with his patients in the crisis of a disease — the state of the mouth & eyes should at that time be particularly attended to.

- Never give a patient over in acute diseases
- Obtain an ascendancy over your patients

The system is found in the following states -

1. In a preternat. but elevated excitement, manifested in unusual brightness.
 2. " Debility - the temporary - remedies are ~~gentle~~ rest - gentle Stimulants & if of a chronic nature the more powerful
 3. " Depression - remed. rest - gent. vac. - or stim. or both accord^d to grade
 4. " Disease - " Sedatives & Stimulants
 5. " Oppression
 6. " Prostration
 7. " Disorder - remedies - Deobstruents.
 8. " Debility - if durable - remedies tonics
- Attack diseases in their forming state. &c.

The following grades must be found out

1. Excitement and excitability combined
- 2.
3. Great excitability with but little excitement
4. Suppressed excitement
- 5.
6. Fluctuation

In our researches into excitability & excitement we sh^d. be governed by the following rules -

1. By the recency of the disease
2. By experience
3. Grades and seats may be known by certain medicines [Sydenham]
Thus making a patient take some rough exercise or a few glass^{es} of wine in some chronic disease - these pointing out the seat -
4. excitement is in a feeble state when disease succeeds great
5. excitement is weak & excitability nearly expended in the close of chronic fever -

Seats of Disease.

1. Many diseases are wholly devoid of symptoms - these are called dumb diseases
2. There is often an error loci of sensation
3. In all general diseases the seats change with^e weather &c.
4. Morbid Anatomy often shows no marks
 - " " often gives mistaken sources of disease
 - " " " marks of dis. in parts remote
5. In the act of dying morbid excitement is translated to many parts which it marks with signs of disease
6. A vicarious office for the pulse (when it will not show) is indicated by the tongue, stomach, countenance &c.

Signs of Disease.

1. Common as thirst & heat in fever
 - Proper - 'as pain in the side & cough in pleurisy
2. Primary 3 Secondary 4 diagnostic 5 pathognomonic, 6 prognostic
1. Sympathies are so disordered in sickness, that they offer no correct sign
2. Signs differ in different people
3. " " from the nature of remote exciting causes
4. " " in their force in dif. persons
- 5.
- 6.
7. The symptoms are sometimes the disease itself -
 - Signs are taken from the Countenance - state of mind - state of pulse - of appetite - excursions - nausea & creeping under the skin - from the seat, nature & grade of pain - state of muscles - taste, sight, skin, bowels, head

- The greater proportion of diseases enter thro' the mouth & feet.
- Many diseases that affect Adults with visceral congestions find in children their outlet thro' the skin

Consultations are proper

1. In all doubtful cases
 2. " dangerous — "
 3. " tedious — "
 4. " desperate — "
 5. Where a new or unpopular medicine is necessary
 6. Where a near relation or friend is the patient
 7. Where the case may be brot. before the Judiciary &c
- Meet him only whose principles & practice are nearly the same as your own.

Of Poisons —

They are of a relative nature: and by Poison I mean any substance taken in a small quantity producing death. The poison of a viper may be swallowed without bad effects — Substances called poisonous are only so as they are applied to different parts of the body & in different doses — Carbonic Acid is poison in the lungs, but a cardiac in the stomach

The green buckwheat is poisonous. — how do poisons act?

1. Different poisons — act on dif. parts specifically —

- some on the mind only as the liquor called in Penic, Pegann acting suddenly on the brain received by the stomach & thro' the nostils — as is the case with the Stommonium
- Pink root — alcohol, oil of bitter almonds & ^{Cicuta, Laurel, ?} ~~Hamamelis~~ & c.
- some on the heart & arteries as the upras, juice of tobacco, Digitalis — koino-miasmata & c.
- some specifically on the Nerves destroying their sensi-
bility & on the muscles destroying their irritability — by excess of stimulus —

The Nuxvomica ^{& Upas} produces Tetanus & death, thro' the bowels or from mixture with the blood — the intellects are never affected by it.

- some. they act primarily on the lymphatic system —
- some on the lungs
- Napel kills by affecting the bladder alone.

Opium acts on the whole system —

They produce Death by producing inability of the parts to carry on life by reason of the excess of stimuli

Of the Operation of Medicines & manner of Administering them

1. of Sedatives - they are such remedies whether internal or external as are intended to lessen the excess of life in a part or in parts of the body and to diffuse it thro' every part of the system.
 2. Excitants or Stimulants are those remedies intending to increase the quantity of life where it sh^d. be wanting and to diffuse it thro' the whole system.
 3. Tonics or Roborants increase the quantity & tone of life in every part of the body -
- Regulations with regard to these may be embraced under the three following heads. Abstine, sustine & siste

Sedatives are used in 8 or 9 diseases out of 10 in the 1st instance - they act in 3 ways -

1 by abstracting natural or artificial irritants

2

3.

The 1st are indirect as Bloodletting, cold fear, rest, abstinence &c.

2 indirect as Cathartics, Emetics, Diuretics, Diapho. Emmen &c.

3 Digitalis acts by destroying sensibility or irritability or both.

4 Remarks on direct Sedatives &

1 of Bloodletting - see printed defence of bloodletting

2 of Cold applied by Air[†], water & Ice in all diseases of violent morbid action - † Sydenham thus used it -

3 of Fear by abstracting the natural tone of the mind - we thus cure Piccups by abstracting morbid excitement from the diaphragm

4. of Rest from the exercise of Mind & body —

5. of Abstinence — this of various grades

• The more you nourish a diseased body says Hippocrates the more you injure it

• Fasting is of great advantage in all acute diseases & where the fluids have a septic tendency

• It is born better by Adults than young persons & better also after a vegetable diet — employ this but for 2 or 3 days at a time and if your patients will have food, make them vomit it

• Fasting is better in winter than in summer says Celsus —

6. Darkness in violent diseases of the Brain & in Ophthalmia

7. Silence

8. Reduced Air — this lessens the stimulus of Oxygen on the lungs — but in all these abstractions there is left great excitability and we must protect the system from all undue excitement disproportionate to the excitability — we must lessen excitement gradually

2^d division — Indirect Sedatives

act st by exciting the system & afterwards exciting a discharge — some remedies act specifically on the pulsion systems —

Thus Tartar Emetic on the Stomach

“ Nitre on the Stom. Bloodvessels & renal glands at the same time

“ Serpentina on the Skin

“ Bark on the Bloodvessels

“ Rhubarb on the Bowels

“ Coffee on the Brain

“ Asafetida on the Nerves

“ Mercury on the Lymphatics

Some Medicines enter the Blood - diuretics do this -
Camphor acts on Sensibility } while others act
Digitalis " " Irritability } on both -
Tobacco int^y on the Stomach & Stewer
Mustards
Opium & Bark

(85.) Emetics

- They discharge the contents of the Stomach - arrest
- the peristaltic motion of the bowels
- excite & diminish the action of the blood vessels,
- excite the lymphatics -
- relax spasms
- and finally equalize excitement all over the body.

- They are divided into 1st Prompt as tickling the fauces with the finger or a feather - if which fail thrust it down the oesophagus - The white Vitriol also -
- large dfts. of warm water - or a circular motion or disagreeable associations or smells -
 - 2^d The lenient as lukewarm water - Ipecac - Squill - strong infusion of Chamomile tea (warm) - Sea water
 - 3^d The forcible as Tartar Emetic - Antimonial Wine - White & Blue Vitriol - Turbith Mineral - & enough water to distend the Stomach.

The Indications are

1. When there is any substance in the Stomach of a poisonous nature as Arsenic, Acid Mercury, Laudanum &c. also where there is a tendency to Apoplexy from having eaten too much or from intoxication - use here the forcible ones, tickling the fauces &c. irritating with the bottom of the Stomach with a quill - large doses of warm water will often effect the purpose when the violent remedies have failed
2. To discharge Bile, Mucus, indigestible matter - the lenient -
3. In 1st stage of dyspepsia - in languid or torpid state of the Stomach, use the lenient & forcible -

4. To counteract the operation by the bowels - hence their advantage in Diarrhoea - use the lenient here
5. In the forming state of Fever - use the lenient & forcible.
6. In Hæmorrhages from the lungs: - " lenient
7. In the Typhoid stage of fever; Burham says they are more safe than purges - use the lenient
8. In Pneumony, Catarrh, Pulmonary, Consumption, Asthma - after venesection & to its proper extent and also where there is doubt of its further efficacy - they are more useful as the Trachea is affected - use the prompt & lenient in these cases
9. In torpor of the Liver & Spleen & in dropsies of the thorax and abdomen - use the lenient & forcible -
10. In Buboes & other tumours to promote absorption, use the lenient
11. For relaxing the pores & exciting sweat use the lenient
12. In all moderate diseases of the Head, particularly when proceeding from the Stomach - they have often cured Ophthalmia and Tooth-ache - the lenient here -
13. More safe in diseases of Children than adults - and Children bear larger doses in proportion, than adults use the lenient & forcible -

Rules in their administration

1. Give a sufficient dose at once ~~xxx~~ if we wish a prompt & powerful operation, & allow no liquid to be taken.
 2. Give in divided doses, where we wish to prevent too powerful an operation -
 3. in plethora indicated by an active pulse &c. bleeding should always precede.
 4. give from 1 pint to 3 pints of warm water or weak chamomile tea after an emetic.
 5. Emetics act more certainly in the morning & yet more so if a pill of opium have been taken the night before & the stomach in the morning is most disposed to sickness.
 6. never puke in a lying posture, as spasm may occur.
 7. Check inordinate vomiting by Laudanum or mint water or a table spoonful of Salt in warm water -
- Sea Voyages often cure chronic diseases by keeping up a continued vomiting - in like manner is Salivation good from its absorbing diseases & condensing them on the throat & fauces.

Emetics are forbidden (88.)

1. In great congestions of the Head & Lungs
2. In inflammation of the Stomach & Bowels
3. In the 1st Stage of Inflammatory fev. before Venesection
4. In the advanced stage of Pregnancy
5. In low Chronic fever or general debility
6. In Hematemesis & in ruptures

Cathartics are used

- 1 To discharge the contents of the bowels
- 2 To dissection of the Liver &c.
- 3 To produce relaxation of the skin &c.

They are divided into

- 1 The lenient or Acid fruits, some fermented liquors - some milk or some Cyder - Mineral waters, Neutral salts - Oils - Saccharine matters - liquids operating by their quantity Sulphur, Raisins, Figs
2. active - as Senna, Rhubarb, Aloes &c.
3. Drastic as Black Hellebore, Calomel Crude Quicksilver Jalap, Gamboge - Buckthorn, Mustard

add fasting to these 3 -

They are indicated

1. When the bowels are over distended, partic^{ly} the upper - use Rhubarb or Sulphur & Aloe for the rectum partic^{ly}.
2. When the Stomach is irritated by Bile or foreign matter fasting is here of much utility -
3. When extraneous matters are lodged in the bowels use here the lenient & active.
4. In tropic state of the bowels - as in Hypochondriasis Colica Pictonum - use the drastic - as Mustard & -
5. In all febrile cases where the pulse is above par - use the lenient & active - Cathartics here promote sweats - when they check sweats they are harmful
6. In Dysentery - the lenient & active - if the pulse authorise it -
7. In recent Diarrhoea, if the pulse admit -
8. In all diseases of the Head where the pulse is very active they act here in two ways
 1. by evacuating the bowels
 2. by inducing a new action - use all the three.
9. In dis. of the Liver, Spleen & Omentum with excited pulse.
10. In active Hæmorrhages - the lenient. use here all the three.
11. In tonic or inflamm - Dropsies - they discharge the bowels and promote the action of the lymphatics - lenient - active & drastic
12. In obstruction of the Hæmorrhoidal vessels - lenient only here
13. In diseases of the skin in full & plethoric habits - lenient & active

- An active purge always acts more certainly by being combined with a weaker one - Sydenham ^{re} remarked this.
- Liquid purges wash the bowels - hence better says Baglivi
 - use them in rotation
 - allow of no solid food while under the operat. of a purge
 - do not work them off by thin drinks
 - fast the day before
 - if we wish durable effects, give them daily
 - they attract morbid action thus from every part to the bowels & give time to the diseased parts to take on healthy action

Are forbidden 1. if the system is below the par of excitement - by disease or simple debility, by Typhus &c. in convalescence from all acute diseases

2. in most diseases of the lungs
3. In Hæmorrhagy of the bowels
4. In Stage of Colica Pictonum

Injectious are preparable to purges

1. Where the Stomach rejects purges
2. Where offensive matter is in the lower bowels
3. Where revulsion is wished from the Head, Throat &c.
4. Where we wish to palliate costiveness, -
 Their action extends to about 12 inches
5. They are very proper in fevers of high morbid action
6. They relieve the Aorta, Kidneys, Liver & bladder
- 7 By stimulating the rectum, glysters abstract excitement from other parts - witness the relief of piles to general disease or confirming this

- From 1/2 a pint - to 3 gills of water with Salts, or Sugar, or Oils or Tobacco &c. where we wish them to operate by their Quality - but from 1 pint to a quart when we wish them to operate by Quantity -
- Air - & smoke of Tobacco where we suspect stricture -

Suppositories are useful partly in the fevers of Children made of wax - or a piece of hard soap - or a roll of paper oiled

(92.)
~~Cathartics~~ Diaphoretics.

1. Those acting directly on the skin - applied to the whole body or partially as Heat by Blankets, water, Air, salt sand, Ashes & warming pan - hot sweet oil in the 'forming stage' - vapour bath - flannels dipt in hot impregnated Salt of them all is the most effectual as it also stimulates
- The pediluvium is used with much benefit in light indispositions - Keep the feet legs in the water for half an hour & then send the patient to bed
- fomentations to be useful should be continued one hour This is the advice of Dr J. Pingle - apply them to the thighs, legs and arms - bottles of hot water here also -
- Cold Air & cold water applied to the surface and after warm water or vapour, exercise or rest [thus the Indians]
2. Those acting on the pores thro' the action of the Stomach This is an instance of continued sympathy - and these may be styled Stomach Sweats -
- Neutral salts, the fixed Alkalies - in small doses without creating a Nausea - [this seldom be resorted to]
3. Diluting drinks in the form of state of fever, but improper when formed for they distend the Stomach & thereby increase the action of the blood. - they sh^d be given so as to diminish thirst only.
4. by the stimulus of distention
5. Those acting by purges - reducing the system to sweat & point

Diaphoretics are indicated -

1. When a matter foreign to the blood circulates in it as poison and miasma [A young Man in London always cured his Venereal by a Spartan -
-ous sweating and he said that the Thirst which he at the time wore was so brittle as not to bear working] — The smell of the sweats & the blood are the same in Yellow Fever —
2. in fevers where the pulse will not altogether authorize bleeding — being too moderate for this —
3. In diseases of the bowels — Colic & Dysentery
4. In Anasarca & dropsies — the sand bath &c.

To assist their operation, the followg. rules are of use

1. The lying in bed
2. Flannel next to the skin
3. Meals divided into 5 or 6 of a day
4. Attention to the temperature of the body — it should never be above 100° ^{as} otherwise there will arise no permanent good by sweats
5. The temperature of the drinks sh^d be regulated by the heat of the body and stage of the disease
6. Diaphoretics sh^d be occasionally suspended in fevers lest we exhaust our patients — Thus Sydenham employed them in the Gout for 2 or 3 days at a time —
7. Diluting drinks are only good to blunt acrimony or to act by distention
8. Eating is safe where the strength is in danger of being exhausted before the operation of the sweat — Sydenham says patients generally feel stronger after sweats —

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9. Change the linen, blankets &c. where they have become impregnated with morbid sweats
lastly - avoid a sudden check of perspiration

They are forbidden

1. In great inflammatory action of the blood vessels
2. In weak morbid action
3. In the low exhausted states of fever - here a soft and moist skin must be alone looked for
Nature seldom brings on sweats except in violent diseases -

Diuretics - They are intended to produce a natural or put natural flow of urine

1. are external as cold water or cold air to the whole or part of the body - Cold pediluvium - cold water to the hands - Cataplasm of bruised onions to the symphysis pubis
2. Certain exercises - as from the garret to the cellar
3. Certain sounds - as of a stream - the bagpipe &c.
4. Fear
5. Abstinence - & diluting drinks with Medicines such as Squills - Parsley - Melon seeds - wild carrot &c. Onions - Turpentine - Cantharides Balsam, Nitre Opium & Digitalis &c. the general system -

Indicated

1. Where depletion is required
2. In dropsical swellings of great morbid or inflammatory action — Cold, Fear & Abstinence are good here
3. In Obstructions of the urinary passages — here use the Alkaline and Neutral salts & the warm external diuretics.

Forbidden

1. in atonic dropsy particularly, as debility is here present and most of the diuretics are sedatives and we must here invigorate by tonics
2. When tapping is fatal it is by the sudden abstraction of a quantity of fluid from the body — and the sedative diuretics would here act in the same way

Expectorants are intended to diminish mucus, phlegm and pus — they act

1. thro' the medium of the trachea
2. " of Stomach & by it also on the lungs
3. " directly on the lungs, by inhaling the vapour of Garlic of Tar — Volatile Salts — by drinking flax seed & bran tea — by liquorice — barley water — Seneka Snake sh.
4. by emetic & evacuating medicines as Squill, Spueac. &c.
5. by Volatile Salts — Mustard — Whisky — Garlic — Tar — Onions
6. by vapour of Ether, smoke of bees wax & rosin
7. by Plasters — thro' inverse sympathy

indicated in -

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1 Asthma . 2 Catarrh, 3 Affections of the Lungs
use here the lenient or stimulant according as the
morbid action in the lungs is greater or less

Emmenagogues.

The Menses are obstructed by 2 general causes
1st by Languor, preventing a due determination of
blood to the Uterus
2^d by Excitement preventing the secession by the Uterus
— We must elevate or reduce excitement to the
emmenagogue point — the menses then will flow natur-
ally

The 1st or languid state must be attacked by Stimulants —
cordial drinks, Exercise — Iron — bitter & chalyb. med.
if there be any affection of the Stomach Bitters may
be generally combined — and if in the Nervous system
Aromatic may be conjoined —

The 2^d state must be attacked with depleting remedies
as Bleeding — Purges — low diet &c
— Where the system is above par Dr Rush has re-
— lied on bleeding and after that, exercise —

Lialagogues - (97.)

They operate in a twofold way - by evac. & revulsion
They are Mercury, Sugar - Lead - Arsenic

Salivation by
Mercury acts by revulsion & by depletion - it is cer-
tainly a natural remedy -

Spontaneous salivation has somet. cured Dysentery
to which Clarkson testifies & Gout to which Syd. & Rush
the same has also cured Madness -

Fore mouth & lips are favourable in most all
Autumnal fevers - Nature tries to cure the most
malignant fevers by exciting a salivation - also
by the pores & bowels -

Auxiliaries are

1. Bloodletting where the pulse is active - it reduces
the system to the salivating point
2. Low diet - this acts in the same way
3. Vomits - they arouse the sensibility of the Stomach
4. Opium
5. Cold applied to the Head & neck & the cold bath - they
reduce the system below the action of Mercury -
6. Dr. Porter of the West Indies combined it with small
doses of Ialap & thus quickened its operation -
7. Dr. Rush often combined it with Nitre with advantage
8. Diuretics
9. By changing the preparations
10. By discontinuing it for some weeks & then resuming it
the system is sometimes below the salivating point

in which case we sh^d employ it only as a revulsive
mean or a depletive

- . to Children &c. give a few grains of Calomel on bread.
- . When Mercury is given as a revulsive remedy, we must prevent its operation by salivation & only allow it to make the mouth sore - it then does most good. use the ointment - also touch the gums also fumigate.
- Dr Jackson says it never salivates with a dry or torpid skin -

to Restrain salivation

1. By Purges of Sulphur
2. " Bleeding - where great pain - pulse active & danger of gangrene
3. - Opium
4. Sweet Oil to the external fauces
5. Blister to the neck & behind the ears
6. Solution of Borax in green tea
7. Wash the mouth with cold water -
- . rain has restrained it in Siam - Diuretics also -

Indicated

1. In all malignant diseases refusing to yield to other remedies
2. in morbid determination of blood to the head, trachea to the lungs, liver kidneys &c -
3. in obstinate Diarrhoea & Dysentery - obstinate Ulcers after the Venereal disease -
4. As an Alterative where it affects the mouth with soreness in visceral obstructions & in cut. cutaneous diseases as a salivation here is often bad -

Forbiden

1. in highly excited state of fever
2. in low states of the system
3. in Children under 6 - their jaws are tender & are apt to gangrene
4. in persons beyond 60 - jaws disposed to gangrene but it is safe here when the teeth are sound and firm and when they are all gone
5. Where there are a number of decayed or loose teeth for fear of gangrene of the jaws

Mr Bogue says a salivation cannot be excited in
Hepatitis after suppuration has taken place.

*Ershines intended to deplete from the }
nostids }*

1. as Murmuratories by a hidden glow of light,
by snuff, Squill, Jalap &c.
2. as depletants - by Turbith Min. Pellitory

this remedy is suggested by nature is useful in the tooth-
-ache, ear-ache, Coryza of the eyes & ears

Blisters. intended to discharge
serum from the blood - They are

- 1 Spanish flies - the wings are the only active parts
- 2 Inner bark of certain trees &c
- 3 Boiling water
- 4 Powder of mustard & Spanish flies make a prompt blister

indicated

1. in Fevers of moderate action - the Spanish flies
- 2 in local congestions of the head, breast & joints, after
venesection & cupping & leeching
- 3 in violent & sudden congestions as to the head, lungs &c.
use boiling water -

Forbidden 1. in dis. of great morbid action - as they stimulate
2. in gen. diseases of weak morbid action
3. in highly irritable habits & in persons disposed to strangury
there is also a blistering point which in fever is when
the pulse is of typhoid action

Dr. Darcy Feb 4th 1818 -

Purificacients & Eruptions —

- Spts. of Turpentine one of the best - oil
 of Sassafras &c. will improve its odour
 For common Glanders - eye mal mixed up
 with vinegar - more stimulating if
 added a few bruised cloves of garlic -
 also 1/3 or 1/2 mustard - Don't all
mustard, but here look at the parts
 occasionally & when the skin is inflamed
 remove it, or if the patient be miserable
 it may cause ulcers & gangrene
 without your knowing it —

Tartar emetic sprinkled over the surface
 of a plaster has been found of great
 service in Pul: Consumption - it raises
 small phlegms —

Arsenic - burnt Alum - White Vitriol
 Verdigrise - Col. Alkali are exhaustives -
 When you wish to make a powerful & deep
 impression on an ulcer - use the common
 caustic - it is rapid & spreading in its effects
 you can neutralize it by touching the parts
 with Vinegar - but also for opening of
 abscesses - but the lunar caustic is best
 for chancres &c - cauterizes edges of ulcers &c
 often uniting them in a short time with
 a new skin —

for a prompt temporary lumen
caustic suggested & tried often by D. Dorey
when you wish to introduce it into a
sinus - dip your silver probe into
nitric acid - the lumen caustic is found
by you here all you wish

To destroy the serum often appearing on
old ulcers - nothing is better than the
diluted Nitric & muriatic acid -

Issues & Setons - in gen. affections the
former is best bec. most convenient
either at the insertion of the deltoid
muscle in the arm - or within the
inner ham string - a Seton in
the groin - D. Dorey once cured an
ulcer of 2 yrs. Standing but immedi-
ately healed an issue otherwise it might
have been dangerous - recollect this
advice -

Cold water dashed on the face for some
time recalled to life a man who
appeared dead from the action of
fumus of charcoal - They were pre-
paring for his funeral -
recollect this

1. Apply them near to the pain rather than on them where we suppose the excitement of the part is above the blistering point
 2. They are better after venerection &c. in local diseases and in malignant fevers where the stomach &c. is threatened.
 3. Apply them to the thighs & shoulders when we apprehend gangrene of the extremities, but never to the wrists & ankles
 4. They should lie on the skin till they produce a serous discharge — they generally rise in 10 or 12 hours —
 5. They never rise on the head — to do any good, they should remain there for 24 hours
 6. Where necessary we had better apply fresh blisters than dress old ones and where we wish them to act as resolutes use the basilicon dressings — and where as depletives only, use the beeswax & oil — never dress them with cabbage leaves — they are too offensive
 7. Where the pain is great wash the blistered part with leadwater or apply a poultice of bread & milk
 - . at the blistering point serum will be discharged.
 - . Above it pus " "
 - . Below it there will be an angry sore
- Blisters will seldom rise in the two last states
- . A black sanious discharge is unfavourable —
 - . Letons in the sides are useful in Pulmonary Consumption exciting suppuration & lessening its traction in the lungs —
 - . when Nature then is disposed to discharge serum, apply blisters at the point-mentioned

(102.)
Issues & drains by Letons, perpetual blisters &c.

- These discharges have often produced cures —
indicated 1. In Pulmonary Consump. Gout
2. in local congestions of the Head &c.
3. in Cutaneous eruptions, on the face, hands &c.
4. they often prevent the attacks of malignant fevers
[they discharge most when a cold has been taken.]
5. A perpetual blister is the best, particularly in dis-
of the lungs — from inveterate sympathy — they may
be kept open by Savin ointment
6. Issues at a distance from the diseased part will be
of most service — heal them with great caution
• They should never be suddenly dried up without sub-
—stituting some other evacuation

Indirect Sedatives so called from their reducing morbid
excitement by gently dissipating the excitability —

1. Gentle exercise in an easy carriage or walking at
a slow pace
2. Small doses of Stimulant Med. & moderate exercise of the
fac. of the mind — ^{& some of the Passions} — Laudanum 5 to 10 drops 2 or 3 times a day
they are most effectual where they prevent sleep — thus
the passions subdue their refractory horses — thus
• take care not to oppress, excite or prostrate the system
• These all act by equalizing excitement & all diseases are
attended with unequal excitement.

- In fevers with suppressed excitement cold water to the skin is most beneficial
 - All violent diseases must be cured by reducing excitement
 - Stimuli will reduce the system altho' their first operation is to stimulate
 - When we reduce the system by Stimulants we so reduce the excitability that Tonics will not then act upon it - We should do it by Sedatives
- These remarks are of immense importance

Stimulants & Tonics.

We are born with certain sympathies and antipathies and it is to the antipathy we have for Stimulants that they produce the good we experience.

- Stimulants restore health by exciting a new action - they are diffusive and durable -
- Where tonics impart fullness & slowness to the pulse they are doing good - but if under their use the pulse gets weaker & more frequent, leave them off
- Celsus' advice is to "change a disease - inflame fever" - the second disease may be more curable than the first -

! Begin by reducing the system below the force of the medicines you give, by depleting remedies — thus sup-
-pose the force of the body to be 100 and the force of
your medicine to be as 30 — then reduce your body
to 25 — This is directly opposed to the system of Dr.
Brown who gave stimulants nearly equal in force
to the grade of excitement & lessened them gradually —
but this is a bad system

2. Bring about a par of excitement in all the systems
thus while we reduce the bloodvessels we should not
neglect the nervous system & so on

3. Let us learn to "plumb" the systems before we prescribe
for any of them — but imperfect sleep cannot take
place until all the systems are plumbed —

4 The Bloodvessels are the Monarchs of the system
the rest must obey them —

5. Begin with your stimulants in small doses increase
gradually till you overcome the force of the disease —

Opium often fails of doing good by too much being taken
at once — five drops will somet. do more good in a
violent fever than fifty —

• give them in small successive doses

• defend the system from all adventitious stimuli as
light, conversation, exercise &c —

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6 But give large doses in the last stages of fever &
in the 1st stage of Jail fever by double & triple doses
according to the state of the system - all the great
cures have been thus performed - small doses are here
harmful by gradually expanding the excitability of the
system & leading the patient thence into death
Leave off these large doses after the crisis

Patients often recover after b.g. desisted by their Physicians
this arises from the gentle stimuli which support life b.g.
exactly accommodated to the grade of the system
The ancient aphorism of "Optima medicina, aliquando
nulla medicina" is here exemplified

7. Do not combine too many stimulants of the same
class in the same dose but ^{as you} discharge with most ad-
-vantage the arrows from your quiver successively - do
so with these -

8. Use them in rotation - they lose their power by habit
& recover it by abstinence from them -

change also the form of the same stimulant when
it ceases to provoke the hostility of the system

Heat is a different remedy according to the form in
which it is applied as of the sun - water - vapor - dry heat

9. In chronic diseases intermit occasionally the whole
class of remedies, by this the Stomach recovers its nat.
habit - this remark applies particularly to Bark & Mercury -

10. If your stimulants remarkably relieve the Stomach do
not suddenly leave them off, but gradually lessen them -

11. There arises an advantage in changing the part -
 thus from the Stomach to the skin - then to the nose -
 then to the bowels & so on [Col. Faelinghusen from
 chewing Tobacco on the side of his mouth to which he was
 unaccustomed was affected with a vertigo - so of Snuff
 applied to the other nostril -
- a rag wet with laudanum hung over the nose often
 induces sleep.
 - Opium often when inert in the Stomach is applied
 with advantage in a jacket to the bowels -
 - Tobacco to the wrist will cause vomiting
12. The same Stimulants that are bad to one part, may
 be applied with good effect to an other part -
13. Stimulants bear a relationship to each other which
 renders them effectual when given in succession
14. Chronic diseases have also their intermissions & ex-
 -acerbations - give your Stimulants then only -
15. All medicines are inert given at that time when
 the parts in the system do not vibrate to the stimulus.
16. Despise not the most apparently feeble Stimulants.
 They are best in the morib. system is then most excitable
- 17 - Keep your eye on the predisposition in the system of
 your patient & let the remedies be prescribed varied accordg.
 otherwise you often do more harm than good

Those suddenly reducing the action of the system, are
Opium, Digitals, Sug. of Lead, Cold Bath violent ex-
-cite - Poisonous Plants - Frictions - Pow. Bark -
Powerful and strong emotions of the Mind - This last
 is very proper in violent disease of the muscles -
they all act by suddenly equalizing the system and
they much oftener do harm than good

[Mr Pettit of Paris relates the effects of terror on a certain
 occasion on disease -

- it cured weak diseases in the young
- it suspended the same in the old
- it killed all those of violent disease in the middle aged

Of Stimulants that remove morbid action by exciting
 a stronger action in the same or some other part less
 important to life — Rules.

1. Reduce morbid action by depleting remedies to that grade
 where the stimulants will act & overpower it at once
2. Take care that the part where you excite a stronger
 action be of less vitality than the part affected -
 but recollect idiosyncrasies in these points —

[exceptions.]

Dr. Darwin says somet. he has excited a delirium in

1. the brain by Opium to overcome convulsions of the muscles
 D. Rush highly approves of this — Drunkeness has cured
 Tetanus & Madness the
2. a disease in the lungs has somet. saved life in the
 Yellow Fever —

3. 'Tis also necessary to translate disease to a part more vital in order to give rest to the part diseased —
4. When the new disease becomes weak renew it by fresh stimuli or by exciting it in some other part —
5. Attend also to the parts connected by sympathy, contiguous — continuous and inverse in the translation of disease — Thus pain may be carried from one system to another — Nature craves this sure must here imitate her — inverse sympathy exists between the lung and the skin
6. Above all invite disease to the skin & bowels, in this too Nature is often our guide
Hysteria goes off during Pregnancy only because the bloodvessels then become excited —
7. Find out a part naturally weak & invite the disease there — invite the Gout by cataplasms to the ball of the toe and to the ankle — they are genl. weak from exercise — and always translate disease to a distance as far as possible from the originally diseased part & create a weak part if there be none by frictions, fatigue &c
8. Observe the dispositions of Nature — thus,
9. In Children throw diseases of the Head behind the ears — in Youth to the Lungs — imitate her by Cups & blisters there — in Old Age to the Bowels & lower extremities — imitate her by gentle purges & warm applications to the feet —

Remedies to remove simple debility

1. Warm Bath is preferable - remain in from 10 min. to 2 1/2 hours according to the state of the system - if remain beyond this debility follows -
 - a warm room also in cold weather -
 - the hot bath induces from 20 3/4 to 2 3/4 of perspiration in 1/2 hour
 - the warm " " " 11 to 11 3/4 " " "
 - use in succession the hot & cold bath - this mode is beneficial in many diseases
2. Cold by Air - Dr. Franklin used to sit at his window early in the morning in his shirt only
3. Salt & vitric acid - sand - dry clay, Air
4. Mineral waters, these are best at their sources
 - they act. 1st by their ingredients - as iron - salt, Sulphur &c. & carbonic acid gas &c. combined with them
 - 2^d by their temperature - taken warm they act more generally become diffused over the whole system.
 - 3^d by their quantity
 use them morning noon and if without effect in 8 or 10 days leave them off - they are hurtful in art. exalt^{mt}
 - they are useful in nervous, bowel & stomachic complaints.
5. Exercise - this is a generic term -
 - it promotes the action of the absorbents - promotes sanguification - increases muscular strength -
 - prevents obesity - prevents leues visceral obstructions &c.
 - it is passive and active
1. Frictions - dry hand, by constant rubbing with which Dr - has removed obstinate tumours in 3 hours -

- Flesh Plaster impregnated with Myrrh, Sweet Oil & Salt says (Aclm.) -- with Spirits Turpentine &c
 - The Chinese also beat the limbs - they call it Chamfing carrying Cattle improves them & assists the secretion of milk in Cows &c
 - scratching also is of great utility - The Itch has cured Hypochondriasis
 - the friction of a sound arm has cured a paralytic one of the opposite side
 - rocking in a cradle
 - Sea sailing - here is also exercise & generally a conflict of passions & emotions [avoid taking cold when near shore]
 - Swinging - exercise of fresh air - Dr. Rush once thus cured a Pulmonary Consumption -
 - Gyrating - putting the patient in a chair rotating it - it is serviceable in Chronic madness
 - Riding in a Carriage - gentle motion fresh air - this varies as to the vehicle - Dr. Rush then asks if Balloons will not at sometime be thus used - ?
- Mixed exercises
- Chamber horse - lifting heavy weights & suspending the whole weight by the arm - we should exercise thus parts of the body when they are weak or weather is bad
 - siding on Horseback - indicated in predisposition to disease and in weak morbid action of the Lungs, Bowels and Stomach & in cases of debility -
 - Long & long speaking singing - the Lungs communicate their motion to every part of the body -

(III.)
"Silent women are seldom healthy" - & Priest
says the reason why the female Quakers have so much
consumption among them is their not singing -
clergymen often go up to the pulpit weak & return
invigorated after speaking - observe also the good
effects on Watchmen, Sailors, Trumpeters &c.
Conversation in cold weather increases the heat of the
body - the low tone of the voice in the City is one cause
towards Pulmonary Consumption

Active exercises

walking, swimming, Dancing & all kinds of labour
- ascending or descending a hill - this strengthens the
lungs - weakens the lower limbs & abstracts disease
from the head - hundreds have been saved from death
by labour imposed on them by necessity

The Indian practice is when debilitated to pick up a log
& to walk with it for some time

1. Begin in great debility with passive exercise and in the open air except after night & never before breakfast - The system is then too weak - we must oppose our patients exercise or labours to his usual exercise - otherwise we prescribe in vain
 - riding on horseback through the lung, stom & bowels,
 - exercise of the arms - for weak pulmonic patients
 - digging in the garden & playing at nine pins for complaints in the kidneys
2. Be constant also in exercise or suspend it as little as possible
3. we must somet. combine medicines with exercise in order to make our patients take it
- 4 - exercise with faith will do a great deal
- 5 Avoid fatigue with exercise - Reguid nimis says Hippocrates
6. Change of occupation - change of mansion, change from City to Country, vice versa - thus giving new im-
-pressions to the body & mind -
 - our eyes & our ears require variety
 - change of dress - colour or specific quality - giving new impressions to the mind
 - Travelling - long journey on foot &c - food & drink car-
play down often - inquire parties of thrusts &c - avoid too much company and the society of the learned & inquisitive
 - Sea Air

- change of climate ^{113.} — Renew every thing — it re-
-volutionizes the constitution —
• avoid questions of friends about health — Dr Rush
thinks Scurvy are often brot. into Cancers from
thinking & talking so much of it. —

Rules to be observed in changing of Climate

1. Those living in high countries should remove to valleys
twice a year — & even from pure air to an impure one
 2. They should reside there for some years — 2 years at least
• if we cannot change our climate we must create
substitutes — thus moisture by placing basin of water on
a stove — cold by double windows ^{near} placing them
casks of ice — the chamber sh^d. be kept for 6 mos. and
of an uniform temperature — • avoid from toxic med.
at this time.
- Pleasures of the Mind & Senses — see printed lectures —
Tobacco on the tongue — Matrimonial & Cordial drinks
they awake dormant excitement —
- The pleasures of the senses of Smelling, seeing & hearing
are a magazine of enjoyment —
- Music has performed many cures of weak diseases,
Milton, Boerhaave & Voltaine employed it to assist their
digestion — "Allons à l'Opéra à digérer" says Voltaine
- Exercise of the mind is invigorating. Social company
- Hope is a flattering & amiable cordial — Physicians
sh^d. inspire it by the countenance, voice and manner &
when with truth, we must do it confidently —
- Anger will often remove ability —

- Popular names also will often act as Stimulants
- Electricity & Galvanism - D. Rush has never found much benefit from them - they are also tedious & expensive
- Gases - Carbonic acid to the Stomach - Oxygen to the bowels &c. in cases of extreme debility and here too
- Rest & Silence are Tonics - They must be perfect -
- Time & manner of Sleep sh^d be regular - Patient sh^d go to bed early say at 9 o'clock - should lie on a feather bed in winter with a covering of eiderdown &c. better than Blankets, which are heavy -
- should lie on a Mattress in Summer
- should lie alternately on each side & never on their backs
- from 7 to 9 hours will be sufficient to Sleep - This is sometimes preferable in one arm chair and the head ache may thus be prevented -

• Carbonat of Iron & the Ore of Iron Sydenham gave, he thot. the latter best as it was more indigestible

- Pearls are also given - from their insolubility
- Mercury also - it revolutionizes the system -
give it till it inflame the mouth

• The Chronic Stimulants are Garlic, Tar & Iron
the clove or juice - in pills - Carb. & filings
• The preparations of Iron ^{the clove or juice - in pills - Carb. & filings} never tire the system ^{water} -

- Change the cloaths with the weather tho' half a dozen times in the day -
- We neglect the feet too much - for thro' them & the mouth the seeds of most diseases enter - besides guarding them from the cold wet &c. we may apply stim. plasters &c. as Salt, Cayenne Pepper, Shoe-makers wax &c.

- In *Lyncope gentile Stimuli* are 1. indicated - & in *Asphyxia* also - in the latter immerse the body in water
- In prostration by malignant fever - loud noises & ϕ & internally *Ether* & *Ardent Spirits*
- In Gangrene - such substances as will act on the adjoining healthy parts - Blisters & iint. Bark, wine, opium &c.
- Parts to which Stimulants & Tonics may be applied
 1. by the Mouth & — substances may be licked - Garlic & Tar held in the mouth do much good to the lungs - Hippocrates called these lambatives
 2. by glysters - there is great sympathy of the rectum with the whole body - Opium, Bark & Aliment 3.
 - 3 thro' medium of nose - Stimulants & volatiles
 4. Sweet oil rubbed on lungs - smoke of rosin, garlic *Ether* Tar
- Sweet oil rubbed on the abdomen has cured [external remedies] ^{The warm hand alone} has cured pleuritic ^{pains.}
- Camphor dissolved in Saliva D. C. of Montpellier cured Priapism, & nocturnal emissions by bathing the perineum &c.
- Camphor & Opium dissolved in sweet oil act as a charm in pains of the joints - these all act by friction by determination & by sympathy - but employed on the Stomach, navel, inside of thighs, arms, back bone &c.
- they are more effectual in children

* From opposite page - we sh^d defend the feet from cold &c. with uncommon care by double shoes, cork soles - socks & boots water tight

• lay Stimulants aside as soon as the system puts on recent disaction

ϕ & in last stage of Typhus also with the above Caustics - hot iron - hot water

+ by the tongue, cheeks & fauces stimulating here first - Bitters, Acids &c. - a man was made drunk by lapping a pint of beer - diffuse them therefore thro' the mouth -

3 4 5 are sufficient for a tonic glyster —

- Medecines removing redundant matter in the body
 as Mucus, Bile, Chyle, worms, feces, Air &c -
- Morbid acid may be corrected by Magnesia - the Alkalies
 - Bile may be obtained by Summer fruits
 - Mercury cures the venereal disease by mixing with it
 - Demulcents correct acrimony in the bowels & fauces
 - Sulphur & Mercury cure the Syph
 - Worms killed by Poisons

Those removing obstructions are

- Bark . Iam . Mercury . Frictions . Cold Bath.
- Exercise & Fasting — Fear also — Thus the
 Royal touch becomes perhaps effectual in Scrophula
 (more probably it proceeds from a lively faith s.)
- Genital - Lecher, Cups &c -

(117.) This is connected with page 109.
Rules in Simple Debility.

1. Give less doses than in overcoming a disease.
2. Prescribe for months & even years

2. of Aliments - rules -

1. accommodate them to the excitability of the system
2. Attend to the crises of disease
3. Advise agreeable food
4. " to eat often & in the night
5. Solid preferable to liquid food as a tonic - partic^{ly} -
in chronic debility - it affords chyle more flavory
6. Give cordial liquid food to those with no teeth
7. Food difficult of digestion is often most proper
8. less nourishing food is better for chronic debility -
Salted meat imparts a tone without a plethora
9. regard the influence of National Appetites
10. make an entire change somet. of the whole
of the aliment -
11. take food even if there be no appetite
11. Attend that there be no improper mixture of aliments
12. try a diet of sweet Apples - boiled turnips & maple sugar
or of rice only - instances are mentioned of cures
by eating for a long time, of one kind of food only
Eggs & milk are here to be preferred if not offensive
to the palate or the disease
13. Eat at an uniform hour - great advantage in this
observe all old people, how peevish they get at the
delay of meals -

14. Fermented liquors

(118.)

15. Foot soaked in wine - the effect is heightened & prolonged

Rules in the use of the Cold Bath

- 1 Never use it when in a sweat or when fatigued or debilitated - the latter injuries in the former -
- 2 - remain in but a short time - it then stimulates only
- 3 - The Head should always be wet first
- 4 - The morning or at 12 o'clock the most proper -
this last hour is best for debility
- 5 - use some motion before going in
- 6 - use friction or exercise afterwards
- 7 use it daily or even twice a day
by using at the same time cold to the head &
warm to the feet, the system is equalized

Of Baths

From 110 to 100	is the temp. of the <u>hot</u> bath	} these increase the frequency of the pulse
" 100 to 90	" " " <u>warm</u> "	
" 90 to 85	" " " <u>tepid</u> . . .	
" 85 to 65	" " " <u>cool</u> "	} they first reduce and after inc. the
" 65 to 32	" " " <u>cold</u> "	

frequency from reaction -

The cold bath contracts the skin -

(119.)
Of Worms.

They are born with us and are found in the fetus and in new born Infants

The seeds of worms are also taken thro' the mother's milk and Dr. Rush thinks from their universality that they are necessary to consume the superfluous quantity of aliment in the stomach of children he speaks here of the round worm only

Dr. Rush thinks some diseases may be produced in children from the want of worms

Worms seldom disorder the arterial system and consequently Dr. R. denies an idiopathic worm fever

I suspect their presence says Dr. R. in all chronic diseases of children and in my prescriptions always have an eye to them -

May produce most diseases in the Autumn

Wine and a little Sugar before breakfast prevent them in children. — the necessity of them is treated of by Li J. Pringle &

The Italians, French, German & Spanish are most subject to them — perhaps from their eating so much rapid & acid aliment — acid debilitating the stomach —

They are found in the Liver — Bladder — Throat — Lungs, womb — in the Maxillary & Frontal Sinus — in the ear & nose — after death in the brain —

Ascarides are found in the human rectum in other animals — Baglivi met with a tape worm 30 feet long

Anomalous Substances in the body

- In the alimentary Canal - as fruits - stones, Piss, humies &c. Copper undergoes a dissolution - producing Vitriol & thereby nausea -
- a Watermelon seed has produced for months, dyspnoea
 - In the lungs, Millers have generally a cough - Cotton Manufacturers also - Needle grinder - Stone Cutters
 - Pomatum & paint to external parts of the body producing the head ache - Lead entering into most of their compositions
 - Coffee &c up the noses in the ears of children - inquire of these circumstances
 - Lanzo mentions one instance of a needle of discharged along with the Urine
 - Wounds of dull instruments in indisposed parts generally cause the locked jaw - It is a partial convulsion of a partial disease
 - Musket shot - balls - Gunpowder &c. left in gives rise to many severe diseases - even Madness -

Diseases from retention of feces -

1. The head-ache - from pressure of the feces on the aorta
2. The piles, inf. of feces on the hemorrhoidal vessels
3. The colic
4. Inflam. of the Bowels
5. Suppression of urine in the Kidneys
6. Ruptures
7. Fever - peculiar only in Children

" — of Urine giving great pain in the region of the kidneys - tenesmus - sickness of stomach - distention of the bladder - delirium - death -

" — of Perspiration

- 100 diseases are ascribed to suppressed perspiration -
- its worst in Summer & Autumn from the influence of heat on the ~~lower~~ blood -
 - its obstructed by moist air - oily substances -
 - hard study - clank shuttles - great pain - fasting
 - by food out of digestion - wet, tight & filthy cloaths
 - night and day

Obstruction of Bile

1. The Cytic - from spasm - gall stones - viscosity in the bile as in the Yellow fever - its morbid effects are costiveness & white stools - [The Black Jaundice]
2. The Hepatic - followed by Yellow Jaundice - indigestion, flatulency, nausea - emaciation, from diminution of or defective chyle - inertia (Hepatalgia) & schirrus of the Liver - Dropsy - imperfect Blood (chyle floating in it)

Diseases from too much motion

. This induces universal debility - from action -

. it induces costiveness, vertigo &c

. long journeys on foot - blistered feet & piles -

— Too much rest induces universal debility from abstraction - Adam's curse is a blessing in disguise #

— too much sleep - induces universal debility by the abstraction of stimuli - torpor of mind &c

— also with or without a pillow - head too high & too low

— sleeping on the back or the same side predisposes to palsy & apoplexy - on the back particularly disposes to seminal emissions also too hard or too soft a bed

— damp sheets - to Rheumat. Catarrh & Pul: Consump.

— too heavy bed cloaths - to debility from undue perspiration

— tight cloaths - to head ache & fatigue

— a room without a chimney & curtains to the bed are very injurious from the collection of azotic air

— head covered is also bad - also heat of burning Coal

— unhealthy bedfellows - hectic &c. the sweats become putrid

— Children often suffer by sleeping with Old people by inhaling their acid & stimulant breath -

— But Old people are invigorated by their warmth

for Man was made to be active

. Women suffer less from a sedentary life

Wakefulness -

Haller says a woman passed 140 days without sleep
previous to delivery - Boerhaave once passed 6 weeks -
 The French Army before the battle of Mours were 3 days without

Causes of Wakefulness - 1. Fever above all

Effects of the Mind & Venereal Appetite on the Body.

1. The Understanding - it acts by increasing or lessening motions in the Brain - thinking is a stimulus to the body - increases the pulse for a time & invigorates all the secretions - but if long continued it creates dyspepsia
- 2 obstructions in the Liver & Spleen - 3 it weakens the nerves - 4 it weakens the brain inducing Apoplexy & Madness &c - 5 injures the eyes & sense of hearing -
- 6 disposes to a falling off of the hair - all these act as they are accompanied 1. with a sedentary life -
2. with midnight studies, particularly hurtful to Invalids -

3. with hereditary predisposition to the above diseases
 4. with strong passions — 5. The kind of study
 and 6. by premature study — Salmon calls these
 the diseases of education —

They are influenced also as to the suddenness of the
 transition from idleness to study and the reverse —
 Are there any diseases from the want of mental exercise?
 There are —

2. The Imagination — This has immense influence
 on the body — witness the Madness of Poets &c.

3. The Passions — They are acute & chronic } + are stim. or
 — passions & emotions } Sedatives —
 The less the understanding has been culti- } pos. & negative
 -vated — the stronger the Passions are seen to

Venereal Appetite — Its effects are hurtful 1. if prematurely
 indulged — 2. if ind. in excess partly by old men —
 infidelity generally begins after 50 — old men are often
 very obscene & lecherous & when very old the appetite is
 often translated to other parts as to the eyes, hands, lips &c

Onanism is very injurious — weakens the understanding — dis-
 -troys the Memory — Enfeebles the body — debilitates the Stomach
 eyes &c. — lead to palsy many other diseases — It in disposes to } Masturbation

1251
(Diseases of Employment.

1. Labour simply as in the Farmer, Carpenter & day lab^r.
accidents & fevers - ruptures, sore legs &c.
• Soldiers & Sailors - fevers, chronic Rheumatism &
scabitic eruptions -
• Coachmen - Cataracts & Pneumonias
• Swains - Nephritis & from long standing
2. Manufactures & Mechanics - by their sedentary life
Dyspepsia - Costiveness, & Hypochondriasis
• Watch & Clock makers & Silver smiths - their eyes
chiefly from confinement - little fresh air -
• Taylor & Shoemakers - from their sedentary life
and position - in the former the Gastrocnemii are
larger - and in the latter the Glutei
3. Bakers - to Pulmonic disease
4. Materials in which men work as lead to
Dr. Franklin's fingers became numb from handling types
he suff^r? also costiveness & want of appetite -
Painters are subject to the colic & often to palsy - & to
nervous diseases gen^l. -
5. Study, inordinate, dyspepsia
• Judges from b^eg. obliged to retain their urine so long are
much subject to the Gravel & stone - Dr. Franklin says,
when he worked in London in an upper story - many
of the workmen were subject to the gravel from retaining
their water -

6. Clergymen with the Gravel but mostly with Dyspepsia but did they occupy their time more in going about doing good than in spending months in teaching to be good - it w^d be better for themselves & for others too
7. 5 Popes out of 100 have lived beyond 80. —
7. Lawyers & Physicians escape most diseases from their constant exercise of mind & body —
8. Those riding much on Horseback are subject to Constipation, Piles &c —
9. Sciveners - to affections of the hand - see Ramazzini

Diseases from Amusements

1. from fatigue —
2. " tight dressing & changes - especially in Women
3. " crowds in large rooms - the microscopical thus engend?
produces a mild sort of Catarrh &c.
4. " nature of exercise inducing fatigue or debility - Dr. knew one man who in dancing dropped down in an Apoplectic fit but the most usual is a Catarrh from after exposure
5. Cans - they are Stimulants or Sedatives as we play to win money or to get rid of time
6. The Theatre disposes to nervous diseases - Tragedy exciting without an external vent - ~~the~~ the excitement wanting

with full force on the mind itself ¹²⁷ but the Miseries
we relieve never act thus

The effects of Tragedy are so violent as to deaden all
susceptibility to minor impressions and the Lady who
will be dissolved in tears at the misfortunes of Jane
More or Lord Essex will perhaps with indifference con-
-template objects of real distress & turn away Misery
& poverty from her door.

7. Hunters, experience 1. debility - 2. effects of long action
of cold and heat - 3. eff. of wet feet & wet cloaths
4. loss of meals - 5. disappointment ^{added to} ~~of~~ all these, 6.

Diseases of Governments

- In slaves there exists not the stimulus of liberty - neither
have they that denial of life - it is so great a stimulus
- The subjects of despotic gov. have more irritability and less
susceptibility - hence their instability of character - there is
no durability in their affections - but in independent
governments, liberty operates equally as a stimulus & as
a security for property - The diseases of Freemen
partake more of the inflammatory kind - see Dr Rush's
printed works - also his acct. of the effects of the Americ.
Revolution on the Human body - Vol. 1. of Inquiries -

Religion - of some kind is as essential to man
as is Air to respiration -

Christianity inspires Hope - joy, security - it has great
salutary effects on the human body and had we no
other proof of its truth, this would be sufficient -

From retention of Uterine - acute fever & somet. madness
a sudden suppression of Milk.

From suppression of menstrues acute & chronic diseases
the latter are Pulmon^y. Consump. Fluor Albus, Abortion
Madness - Death -

Diseases of peculiar Customs -

1. Drains in the morning - they destroy the tone of the
Stomach & lessen the appetite
2. Wine & Bitters before dinner - dyspepsia & a train of nerv. dis -
- 3 The receiving of "lying in" visits very injurious
- 4 The ringing of bells at funerals - they affect the low spirited
somet. hasten those very low to the tomb
- 5 Tobacco - depresses the appetite - wastes the saliva & somet.
induces Pul. consumption

Diseases from Unhealthy Ancestors

1. Congenital, as - Syphilis, Small Pox - Measles, Plague
deformities also - as hare lip - impurated anus &c
2. Hereditary - depending on two things - Shape and
Predisposition
 - a sameness of the forehead & eyes in the Child generally
indicates the same disease as in the Parent - ...
 - so will the shape of the Breast and of the Brain -
perhaps Phthisis arises oftener from the Father -
Dr Rush thot. Madness inherited oftener from the Mother -
 - These diseases seldom appear before the age at which
the parents were affected -
 - They often pass by the 2^d generation & appear in the 3^d -
They also pass by the 2^d & 3^d & appear in the 4th -
 - A Physician should never forget in chronic diseases to in-
quire whether they are hereditary -
- 3^d Class - Filial affecting a whole family - acquired
by sameness of diet - of cloathing, customs &c
Dr Rush knew 3 of one family affected with Epilepsy -
4 of another with Palsy & 5 of another with Hemiplegy
where none of their ancestors had had them. -

Diseases of Puberty

- 1. febrile - 2. Pulmonic - 3. Epistaxis - 4. Head.ache
- 5. Dyspepsia - 6 Hypochondriasis - 7 Growing pains,
- 8. Glandular swellings, 9. Venereal disease -
- in females - Chlorosis - vitiated appetite, head.ache
- Phthisis

The Mind portends of the Nature of the Body here

Diseases of Adolescence -

- Fever - Consumption - Hemorrhages - A plethora, which
- after growth falls on the lungs -
- the veins have now more density & tenacity - but after
- 35 to 40 the arteries have most - and now we
- have obstinate head aches - hemorrhoid, melana -
- from 40 to 57 the Arteries have the predominance -
- the motions of life are now more regular & tranquil -
- like trade winds on an Eolian harp -
- The Bloodvessels are the Centinels of life

11 Diseases from Accidents - They somet. follow a long time after.

D.R. saw a case of Hydrocephalus Int. 18 mon. after the blow - He also knew a derangement at 23 in consequence of a horn-kick at 15 - and from a blow on the back, on abrupt 4 years after -

(131.)
The Predisposing Causes

They are Natural & Antipical -

1. Of Infancy — from the disproportion bet. the head & the rest of the body, creating a volume of blood there giving rise to Hydro. int. — eruptions behind the ears &c
2. From the cartilaginous structure of the Cranium & opening of the Sutures — Hydro. int. &c.
- from the disproportion bet. irritability & sensibility — the irritability b^y much greater — thence Convulsive disease, Thisness &c from the acidity of the Meconium
- from the irritability of their Stomach & bowels —
(from dentition from sucking too much &c giving rise to Chol. Infantum & bilious fever -
- dentition, giving rise to fevers, diarrhoea, vomiting & even Gonorrhoea
- from their skin
- activity of their passions
- worms

Diseases of Children & Puerility.

- They are less disposed to Stomach & Bowel complaints, but the disproportion still exists between the head & bowels — thence Hydro. int. — sore throats — Cynanche Tonsillaris &c
- their skin has now more sensibility —
 - it has been demonstrated that one half of Children die before Puberty — This arises ^{fr} from the disproportion of the Stimuli applied — to the capacity of the animal fibres to receive them & 2^d from the deficiency of reason to restrain their passions and to guard against disease —
- The mortality is greater in Boys —
- Dr. DeGand says Boys have more vitality }
Girls " more tenacity }

(132)

Influence of 1. Sympathy & 2. Antipathy in Diseases.

1. Gaping - 2 Loe eyes - 3 Laughing & weeping are often thus caught - tricks of Mimicry &c. -

Convulsions - 1 Child at the Orphan house at Harlem thus communicated the Epilepsy to 100 Children

Shaking Palsy - Stuttering - &c. whence is this?

Man is an imitative animal & his muscles are moved without the consent of his will -

A Child who had been confined in a room with a dog for some time was found snapping at flies with his mouth & eating food as the dog did -

2. of Antipathy - This is congenial & acquired - Peter of Russia had an Antipathy to crossing streams - once nearly drowning James the 1st. had an Antipathy to a drawn sword - here it was congenial as it is often from terror in Mothers - Lord Darnley having plunged a sword into Bothwell while in Mary's arms - Antipathy is acquired often by satiety - from 2 causes

1. from a disagreeable flavor to food
2. " disagreeable associations - objects being combined with fear or sickness at one time or another -

- Association of ideas - This is particularly important in Disease & in the cure of Hypochondriasis & Chagrin. -

1. of Motions - the effects are twofold - 1st the Association of ideas

2. the practice of irritating just before going to bed shows the influence of habit - Dr. Deal knew an Intermittent put off from 12 to 3 o'clock solely by keeping the patient in a dark room - In Epilepsy a change of Climate often cures by breaking the accustomed motions

133.

Diseases from false systems of Physic -

Remedies without the advice of a Physician

1. Purges - they induce costiveness for by their continuance the bowels become insusceptible to the stimulus of bile.
• The Butternut Pill long continued induce Vertigo -
• Apoplexy and Palsy -
• Salts - thus administered induce weakness of the bowels
• Glysters, to which the French are much attached, the same
2. Vomits inducing dyspepsia & ruptures - The English are fond of them - they dispose to a fresh accum. of bile
3. Bitters induce debility, drain drinking & destroy the tone of the Stomach - Cham. tea, Duck bean &c. Port. powder.
4. Nitric - dyspepsia & colic
5. Opium - languor - dyspepsia, amnesia & idiotism
6. venesection in the Spring - Plethora &c.
7. Warm & cold Bath - Palsy, Int. fever & Hemoptysis.
• The pediluvium does much harm in fevers of high action - they should there be forbidden -
8. Exercise when too long in fevers &c. does much harm
9. Diet drinks in Spring - Abstinence of animal food is better
10. Many diseases from Quack medicines. -
11. Chalybeates - Hemorrhagy from Stom. & bowels
12. The Digitalis disease is seen in sickness of Stom. & pallid face
13. The Mercurial " see Dr. Matthias' work -
14. Beef Steak & Porter breakfast dis. - is seen in pimples face, swelled face & legs - difficult respiration
15. Grog disease - in a pallid or rosy face, trembling hands, obstruction in the liver - local or general dropsy -
These two last might be called Brunonian diseases. -

(134)

Remedies for Pain — Pain is however itself sometimes a remedy —

1. They must be different according to its causes
2. " — accordg. to its seat, int or ext. or vital, or in diff. systems
3. " — to its grade or duration
4. " — as local or general
5. " — as constant or with paroxysms —

1st Remedy — Depletion by Bleeding, Purging, vomiting & sweats — in muscular pain & in intestinal pain ~~also~~ without any increased arterial action we bleed.

2. Fasting — the excitability is thus expended.

3. Opium, when the action of the bloodvessels is moderate: it is safer in diseases of the nerves & muscles than of the bloodvessels — if it be rejected by the stomach, then inject it & if this fail then give Hops or Kembane

4. Cold air — in great morbid excitement of the bloodv. or muscles

5. Cold water — particularly to the head by wet cloaths or bladder — but the Cephalic Caps is the best — There are 2 kinds — 1 for those standing — 1 for those sitting or lying — Cold water cures the pain of the hemorrhoids — Artificial affections: Rheumatism but must be confined for a long time to the part — mere effusion w^d be injurious — why? because it would react & therefore stimulate.

6. Hot water acts on our Anodyne when taken into the stomach also when given by glyster — warm is best here — also by pediluvium — Hot water will excite the heart out of the body, when the picking of a pin will not move it —

- 7 Oils and demulcents — also poultices of bread & milk with sweet oil — poult. of linseed &c — they also lessen the action of the pulse when applied to extreme parts
8. gentle friction with the hand — the colic in children is thus relieved — Lord Nelson's repeated cry in his last moments was rub — rub —
9. violent friction with the hand — the Inhabitants of Otaheite thus cured Capt. Cook in one night, of the most obstinate Rheumatism
10. Pressure — the Colic & headache relieved by tight ligatures
11. Rubefacients — with floss of mustard, Ginger, Pepper, Blisters, Caustic, Moxa — . Ginger & laudanum made into a paste is excellent — . Mustard is best when applied near to the part affected, as when on the part it often does not excite pain or ^{being preoccupied with the original excitement} stimulates the part
12. Cutting the Nerve leading to the part.
- 13.
- 14 By inducing revulsive action in another part of the body — let patients cry out lustily — it transfers much of the excitement to the throat & mouth and on this principle it lessens pain — Women bear Parturition best when they cry out lustily — so do those under an operation — Horses shew their colics by biting the manger — . flower of mustard to the feet is excellent in pains of the bowels
15. Exciting strong impression on the ear has cured a gentle attack of the Gout — he made 2 of his negroes sing with all their might — 2 children seldom cry together — and 2 maniacs are seldom noisy together
- * Dr. Rush once knew a Cancer caused between the eyebrows by the the person's continually pressing the part, to remove pain. —

Means of attaining Longevity — the whole
 of which is summed up in these words —
 — accommodate stimuli to excitability and excitement. —
 — consider well Diet, drink, Cloathing, Studies, Pleasures,
 Predisposition, Ages, Sex, Labour & Amusements —
 — Strength is not health and a delicate frame
 may last as long as a robust one provided there be a
 due proportion between excitability & excitement and the
 stimuli applied to them — A Watch Spring will
 last as long as an Anchor, provided equal regard be had
 to its nature in the force we employ. —

Medicines are relatively good only #

There is a certain Syntax in Medicine and the ad-
 -ministration of medicines according to the 'stage, grade
 seat &c. of disease is as necessary to success as that
 an Adjective should agree with its noun in gender, number
 & case to constitute good Grammar in the Latin tongue.
 # that Physician therefore who introduces a new remedy into
 practice for the cure of any praitic. disease is rather accus-
 -ing of course than commendation — Opium in certain
 states of the system will induce sleep but it will also in
 other st. create the most obstinate watchfulness —

The Physician who thus recommends & prescribes medicines
 & jumbles them into the system together without regard to
 the state of the system resembles a blindfolded horse going
 continually in a circle without in the end gaining one step
 or getting one new idea — Perish the names of such
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that Physicians therefore who introduce a new remedy into practice for the cure of any particular disease is rather cursing of course than commendation — Opium in certain states of the system will induce sleep but it will also in other st. create the most obstinate watchfulness —

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practice and perish those Books that tend to perpetuate such practice. — We may as well jumble the letters of the Alphabet into a box & expect them to come out arranged in the order of an Epic poem, or to expect to cure disease by throwing medicines into the system. The reason too why Physicians have given such diff. acts of the effects of the same remedy is from their having been given in diff. states of the system, which has not been attended to.

Phenomena of Death. resulting

1. From the absence of stimuli supporting life

2. Error loci, from too much relaxation

5 Certain poisons — 6 solution of continuity from wounds

7 From extreme rigidity

— The continuance of disease or morbid excitement to some part of the body &c. — This remaining morbid excitement affects

1. To the Mind — Shown in an elevation of mind — even Children have evinced on their death bed, an almost preternatural intellect. Demophon, Homer & Shakspeare

2. someth. in a talent for shining

3. someth. " for music. Dr. Rush saw this in a young Lady — like the Swon she sang away the last hours of her life

4. To the Passions — shown in affection — in the parting kiss &c.

5 To the Brain as in delirium — here the moral faculties often pervert.

" as in gr. pain with Coma — red eye &

6 To the Senses — they are then exquisite

7 " Trachea, larynx & glottis — shown in the voice & in loud cries

8 " Fauces showing great thirst

9 " Stomach " voracious appetite

10 " Bowels

11 " Kidneys — 12 To the Muscles 13. Arteries with full & tense pulse

without regard to the nature, grade, duration &c. of the disease

12. To the lymphatics as in dropical effusions

13. " skin as in intenal heat & sweats

14. " Penis — Priapism — Mahomet did thus —

these remains of excitement somet. fly to two or three parts

2^d head. — The prangs of death

There are local & general — constant & remitting

3^d head.

They are often stationary at the point of pleasure — thus some die laughing and singing — somet. there is not felt either pain or pleasure

When the respiration becomes voluntary then generally the "rattles" supervene — this arises from a collect. of mucus which the lungs have not strength enough to cough up

Feces & urine discharged involuntarily — we come into the world as we go out of it

Coldness in the toes & fingers & somet. at the wrists

The surface over the lungs is somet. the first cold

In the whites of the eyes — in the enlarg. of the pupils —

In there being somet. no pulse — in a yell. skin — in a stiffness of the limbs and in a cadaverous smell

— in what is the ultimum moriens? Dr. Rush thinks th^t. thoughts often continues after both the pulse & respiration has gone — impressions on the ears somet. recal persons apparently dead, to life

Phenomena after death.

1. Florid colour — 2. warmth in the heart & over the whole body
3. Hemorrhages from the nose, eyes & ears
4. Sweat on the forehead — this has been seen sev. days aft. death.
5. Now & then a tear — a swelling of the body —

The body putrifies soonest which has died of an acute disease

Remarks on Nosology - *Ed*

- Nosology is the Augean stable of our Science
defenda est Nosologia Methodica. —
- Nosology makes no provision for the forming stages of dis.
~~it~~ does not prescribe for them until they are perfectly
formed. and as well might we delay to quench a spark
before it set a house on fire as to delay our remedies
till the disease be developed —
- The premonitory signs of almost all diseases are very
much the same but when neglected they get a firm hold
and fasten themselves on those parts of the system which
are the most predisposed and according to the parts they
attack so are their names given them —
as Nature abhors a vacuum so do I consider that
Disease abhors Nosology — 'Stand off therefore ye
friends & advocates for Nosology — you have no name
or remedies for the forming states of fevers —
- Nosology is incompatible with the course of Disease
they are all an Unit — it is also incompat. with
the changes that are imposed on disease thro' Climate
Seasons and Time. — it is incompat. with the nature
of Epidemics and with the varying seats of disease,
witness the Gout attacking the dif. parts of the body —
still it is Gout & the Nosologists even allow this —
- Nosology is opposed by the absence, ambiguity & change of
symptoms — Nosology excludes most of the symptoms of
Children — it dooms all domestic animals to perish
from int. disease, for they are dumb & cannot tell their disease.

The remote, predisposing and exciting causes of disease are all an Unit -

Why should we not view the whole body as an Unit & all its particular arrangements as simple disease -

Cancer whenever it appears is an Unit why then give different names to the same disease merely from its attacking diff. systems of the body

it is only morbid excitement whenever it appears tho' the essential nature of this be unknown -

Nosology has no room for new diseases or new forms

N.G. has introduced different remedies to cure diff. diseases because it was supposed they each depended on a different proximate cause

- In the great majority of diseases it is only necessary to know their grade & duration in order to cure them -

- We give similar remedies in similar circumstances for every disease.

Nosology requires the operation but of perception & memory -

The Unitarian puts into operation all the faculties of his mind

The Unitarian in his practice resembles the Chainer whose path lies where the winds are ever varying & the Ocean boisterous - his principles of navigation chain him to the clock of his vessel where he must watch & accommodate his actions to circumstances -

- Nosology resembles a Cluggman who was once sent for by a Poor Cowich to afford him consolation previous to his being hanged - the Priest gravely pulled out his Book & after turning over the leaves for some time told the poor fellow he found no prayer in his book that

suited his case and 142. left him — but another
Priest passing by who was accustomed to praying ex-
-tempore, performed the friendly office and calmed the
soul of the Convict — and this last is the
Unitarian —

+ Brown says, the diseases of great action constitute
but a proportion of 3 in the 100 — D. Rush thinks
they constitute at least one half —
he objects also to Darwin's division of diseases & says
we may compare it to the Palace of Ice built by the
Empress Anne of Russia — beautiful indeed but des-
-troyed by the heat of the Ordeal Sun or Darwin's
theory is destroyed by the heat of a raging fever —
these divisions are like laws that take notice of
great crimes only while the Unity of disease makes
provision for all their grades — — —

D. Rush's sentence of Death on Nosology. —

A single principle in Medicine if true is worth a volume
of unconnected lifeless facts —

The most erroneous systems contain some good — select this and
turn it to your advantage —

The Practice of Medicine.

+ Brown's division, is into diseases of great action or sthenic & into those of debility or asthenic — the former in the proportion of 3 — the latter of 97 —.

+ Darwin's division is into diseases of sensation, association, motion and volition

+ Rush's division is into 1st those appearing chiefly and universally in the bloodvessels & in the viscera constituting Fever — 2^{dly} those appearing in the bloodvessels, Nerves & Alimentary Canal.

+ Fever. — for a description of its phenomena see the printed works of the Author. —.

1st. The symptoms indicating its approach and the remedies to prevent — these are

- . Elevated excitement — tho' natural
- . Debility, from action or abstraction
- . Depression —

1st. Elevated excitement, this is frequently a precursor of fever & discovers itself in a frequent, full & quick pulse — in redness ^{of the eyes} — burning in the Mouth & Stomach — a rainbow col. to the eye — increase of appetite prof. discharge of urine 1st. activity of body & unusual activity of mind — The remedies are rest — abstinence — or the loss of a few 3^{rs} of blood or a gentle purge — Blisters also, gradually reducing excitement — these are all for the forming state of fevers.

2^d. Signs of Debility — languor, sense of fatigue, costiveness, sleepiness with distressing dreams & increase or dimin. of urine, remedies are rest, warm tea, pediluvium, cheerful society

and avoiding strongly irritating causes that would push it into depression -

3. of Depression - signs are weakness of limbs, dry, cool or cold skin, lassitude, chilliness, weak or quick pulse yawning, shivering and some pain -

Remedies, 1. rest, in refraining from labour, exercise & study and in going to bed. 2. fasting [thin diluting drinks may be used here with advantage] - 3. gentle stimulants as the pediluvium, warm bath, warm bed, 20 to 30 drops of laud. with hartshorn - Sage tea - wine whey - 4. gentle exercise of the understanding & of business - Cold water poured on the body by Currie - it is only safe in the depressed state of the blood vessels - change of air by Dr. Lind - gent. evac. as lenient purges & gentle vomits - these are most proper when the fever is nearly formed - "Warren's Thunderbolt" this was a pill that purged, sweated & puked -

moderate bleeding - 6 or 8 $\frac{3}{4}$ has often prevented it - gentle sweats by diluting drinks & applications to the skin that do not stimulate - cold air & cold water to dis- change the heat of the body - a blister to the head Dr. Lind says, has prevented an attack of fever -

there are few fevers but what we can thus prevent - the only way to conquer an approaching fever, is to submit to it -

Cure of Fevers after they are formed -

Certain fevers will run their course as Intermittent fever when formed - Whooping Cough, Measles, Small Pox &c - say Parvula, Colegham & others - Dr. Rush thinks there is some foundation for this but there are exceptions - which here follow -

Fevers are cut short by

2. A chol. morbus - this has somet. cured a few. after completely formed
3. Sweats - Dr. R. objects to this mode -

4. A strong dose of Opium has also done it
5. Large doses of Bark, by oppressing the Blood vessels but such cures leave obstructions in the viscera
6. Large draughts of Aqueous Spirits or fermented liquors
- 7.
8. hot & cold bath - the Indian mode of cutting short a fever
- 9.
10. Constricting the body
11. Powerful frictions, as practiced on Capt. Cook
12. Violent exercise or labour - Madness has been thus cured -
13. Sudden emotions of the mind - storms - a battle &c.

But these remedies require a robust constitution - the Indians after commerce with the Whites could not, as formerly bear these remedies -

These kind of remedies somet. destroy life or fix a disease on the Brain or Nerves that perhaps cannot be cured -

- No violent remedies sh^d be employed to cut short suddenly a fever - they generally do great injury

We must ^{not} stamp fevers out of the system but meet them with depletion or Stimulants or by both when necessary - we often save life by prolonging their duration but for this the Physician gets neither thanks or reputation.

The Remedies are Sedatives & Stimulants

Sedatives are indicated in the Malignant, Synochus fortis, Synocha synocula, & occasionally in the Synchoid - occas. in the Hectic, Chronic forms & Synochus mitis -

1st Evacuants & the 1st Remedy - Bloodletting - see the Author's printed "defense of bloodletting" -

2^d Vomits - they do service here where they lessen the headache and promote sweat - they are proper in all moderate fevers & to be effectual should be repeated often -

They are useful where the secretions are performed with difficulty — They may be given with advantage where the system is too low for venesection &c. and they do most good in the forming state — The Antimorrial preparations are best in fever, except in the Dysenteric state of fever — forbidden — as in page 88 —

Purges — see also page 88 — Calomel, Jalap & Rhubarb are the best in Bilious febrile complaints — they should be given in the absence of paroxysms — they operate in loose stools & with more certainty than — Inquire of the nature of the stools and continue them till they bring away black or green matter & with fætid smell, as this comes from the upper bowels & thus relieves all the contiguous parts — if the stools are natural, the medicine has done no good — these nat. stools are but from the lower bowels.

For the indications of Injections see page 91 — from 1/2 a pint to 1 pint of water with Salt Molasses & Oil, each 1 Table Spoonful is a good injection in common fevers —

Sweating remedies internal & external — see page 92 — These are says Dr Jackson "remedies of necessity" to be resorted to when no other remedy will act directly on the disease —

They are particularly proper where Nature shews a disposition thus to relieve herself — also if habituated to them. Their use arises from the supposition of a morbid matter in the body creating the disease.

Glaucogues - see page 97. for indications, under Fr.
Mucous treatment by friction in fevers of great morbid
action always do^s harm -

Blisters, they are most proper when the pulse is des-
cending to the typhoid or typhus state - Above that
 they will not act - below it they do no good -

It is a good sign when they lessen the frequency of the
pulse & when they induce stomach - see page 317 -

Those remedies abstracting Stimulus

1. Cold by Air - Water and Ice

Air accommodated to the heat of the body & state of the pulse
 and applied equally to every part of the body -

The circulation of blood to the head is retarded when
 the patient is often moved up, accord^g to Sydenham's
advice - head ache & cephalic congestions are often thus
prevented - if your Patient can sit up before the fire

take care of the vent holes on the feet &c. - but if he
 cannot sit up, uncover him & thus give him the cold air
Cold water abstracts more heat from the body. than
 cold air from its conducting (greater) power - it can
 also be applied to the body without acting on the lung.

It is used 1st by affusion - place the naked body in a tub
 of cold water & then let cold water be dashed over it
 it acts here 1st as a direct stimulus by its force

2nd as an indirect stimulus by the reaction by which a new
 or healthy action is created - but we should previously
 prepare the system by bleeding &c. D. Rush however
objects to its use in fevers of great morbid action -

1st Its use b^g founded on an erroneous belief that fever

- arose from Spasm of the extreme vessels
2. it requires an exact knowledge of the state of the system to render it safe
 3. 'tis attended with great uneasiness & somet. danger in cold weather
 4. visceral congestions taking place in Autumnal fevers forbid it
 5. reactions shown on diseased parts forbid it
 6. The usual depletions are better

2. Mode - Infusion.

The body is kept for some time in cold water to prevent reaction & thus we obtain its full sedative effects.

Boerhaave tells us it is used thus in Malaria - in fevers - excruciating here - - - few patients w^d submit to this -

3. Mode - Ablution.

- Universally or partially by Napkins or Sponge evy. 2 hours or so - it promotes perspiration &c.
- wash the hands or feet for 1/2 an hour
 - use it to the head by bladder or Cephalic Cap
 - use it to the bowels by Glyster -

Dr Rush thus practiced long before. Dr Currie's pub. on the subject. - Ablution is the safest remedy Dr Rush has used it with an active pulse - for by its contracting the diameter of the blood vessels, the force of the pulse is diminished -

- 'tis very useful in Autumnal fevers & in two forms of Arthritic & Eruptive fever - it abstracts heat - lessens the action of the blood vessels -
- 'tis useful in all diseases of the lungs from the close sympathy between the lungs & skin.

Its external application.

1. To the neck forcibly under the arm pits
- 2 To the Scrotum
- 3 To the Feet,
- 4 To the Arms & Back
- 5 To the Hands & face
- 6 To the Head - ice here in addition is generally required

Remedies for Inflammatory States of fever

1. — Broths, milk & Butter should be prohibited — also Spirits, even diluted & Malt liquor —
 2. The Stimulus of light & sound should be abstracted — there should be little or no company or conversation
 3. The influence of Stimulating passions sh^d be abstracted and great fear or great hope prevented — a medium state should be induced & all exercise sh^d be prevented —
 4. Allay the Stimulus of thirst by lemonade — calum tea — boast water, dried apple water, barley water, tomarins &c. these also obtained the acismony present —
- The temperature of the drinks sh^d be neither hot or cold, for in these states they stimulate — the hot, directly, the cold, indirectly — Currie thinks cold water is always safe in the Stomach when it is so on the skin — D. Rush thinks differently — tepid drinks (from 86 to 96) should alone be taken — these allay the thirst better than any other — they lessen the heat of the body & promote the action of the absorbents —
- in insensibility the bowels sh^d seem to be on a par with regard to cold water — Cold water with even Ice has procured only a pleasant (not cold) sensation, in glysters in the Yellow Fever.

Of the quantity of fluids — 1 pint to 3 half pints in the day.
 if this will not answer — let y^e patients suck oranges —
 put salt in the mouth — its violent stimulus overcomes
 that of thirst — chew lead &c wash the mouth with
 Gum Arabic water, chew Apples —

"He who drinks least will have the least thirst." Celsus —
 The absence of thirst is a bad sign in malignant fevers
 and the restoration of it is always a favourable one.
 • Refuse copious drinks to y^e patients in the beginning of
 fevers — tho' the thirst be most intense — So we must
 give them when indicated tho' not asked for even if
 they be disagreeable. —

• Abstract also every kind of filth — it is of a stimulant nat.
 The next class are those that divert local morbid ex-
 citement as Congestion, inflam. serous effusion &c from
vital parts to those less essential

1. The Neutral Salts & s^{ts} of Nitre — it acts powerfully on
 the Stomach & thus reduces the action of the bloodvessels —
 evident in the diminished frequency & force of the pulse —
 dose from 10 to 20 grs according to your frequent use of it
 • it is seldom borne in gouty or biliary states of fever
 as there is here generally a sick stomach —
 • we see too its dyspeptic consequences in Pulmonary Cases
 after long continuance

2. Sulphate of Soda, Potash & Magnesia — Acetate of Ammon.
 Tartrate of Potash — for reducing the pulse —
large doses for purges — small ones as Alteratives —
 The Tartrate of Potash is particularly useful in Biliary fevers &
 The Acetate of Ammonia in fever with nausea or vomiting —

2. Preparations of Antimony. Dr Rush prefers the Tartar Emetic to them all -
Combine $\frac{1}{8}^{\text{th}}$ gr. of Tart. Emetic with 8 or 10 grs. of Nitre -
This tends particularly to the skin - give it ev 2 hrs.
in inflammatory fever - a convenient formula is
- Of Nitre $\frac{3}{4}$ gr. } divide this into 8 doses give one
Calomel 4 grs. } every 2 hours - it generally salivates
Tart. Emetic 1 gr. } is very good in costive bilious habits
but we may omit the Cal. in a day or two, without we
wish to salivate -
3. Sulpuraria - This acts as the Tart. Emetic in inflam. action
by its primary effect on the Stomach.
4. Sugar of Lead - in the Hemorrhagic state of fever
Dr Rush never used it in Inflammatory fever -
it induces Colic when long continued in Adults
it is more safe in children -
5. Digitalis - Dr R. has used it in the hypoxic & pulm. f.
states of fever with no advantage - he does not re-
commend its use here - the lancet will answer.
6. Sweet Oil, by external application by feather or a
gentle brand - it reduces the pulse in force & frequency
but in the gangrenous or putrid state it does harm
- 7 Nitre dissolved in Vinegar in Acute Rheumatism - Dr.
R says perhaps it does good by creating evaporation -
8. Tight ligatures around the extremities, suspending the
return of venous blood to the viscera -
9. J. Hall of Vienna advises the prevention of sleep - it
weakens fever & prevents delirium - but sh? not be continued
too long - here finish the remedies for fevers of great
morbid action

The Typhoid Fevers we see most often in the Puerperal fev. - in Scarlatina I now & then in the Bil. & Jaund fevers - but all fevers may occasionally take on this form -

1. sometimes a fever comes on with this state gradually - the patient someth. complaining for 2 or 3 days & even for weeks before he is confined to his bed of languor, lassitude, fatigue from occupation &c - head ache - dry skin, weak appetite - no chills however - pulse somewhat frequent, otherwise natural - skin hot, head bewildered, tongue alternately moist & dry - this is the slow Nervous Fever or Typhus mitior of Cullen -

The low Nervous fever or Typhus gravior of Cullen - the symptoms are - the tongue, teeth & mouth dry & of a darkish colour - the urine pale - the jaws fallen - a numbness of the hands & tongue - stupor - bowels constive or loose - diarrhoea often - dullness of apprehension and low and the close delirium mites & involuntary discharge of stools takes place - also glandular swelling, & fungous

Vulgar Errors with regard to them - 1. They are called Nervous diseases, Typhoid & Typhus but they are primary dis. of the bloodvessels and affect the nerves secondarily - but they affect the Brain still more

2. They are supposed to be derived only from idionismata but they arise as much from koine miasmata - D.R. saw a Typhoid yellow fever in this City -

3^d That it is always of a chronic nature but it often runs its course in 7 or 14 days -

4. That it is cured only by Stimulants, but experienced teachers, that depletion will only answer sometimes -

Cure of the Slow Nervous fever -

1. In its forming state an emetic often cures it in a few hours - The characteristic of this disease is that of a medium action

2^d After it is formed what remedies? The vulgar practice is to begin with Stimulants - I Rush objects to this for the following reasons -

That as there is a wrong course of the blood, Stimulants do harm by fixing the blood at its wrong determination - probably a vital point

Remedies then for the Typhoid state of fever in which there is healthy arterial action - tho' a wrong determination

1st Blood letting - with great caution & in very small quantities & in habits debilitated by great fatigue or can living it will not do -

2^d Emetics where bleeding is improper and to be effectuated they sh^d be given every 2 or 3 days - they untie the typhoid knot in the arterial system

3^d Purges - they carry off Bile & prevent visceral congestions - Give them every 3 or 4 days - these can only be used in the slow fever

4th Nitre or Antimonial powder

5 Blisters as gentle evacuants - they save the brain and abdominal viscera from congestion

6. Ablution & perhaps affusion of cordwater - the latter is most safe when the typhoid is descending to the Typhus action -

7. Salivation - This has succeeded here when all other remedies have failed - tho' it is difficult to induce it -
 8. Expectation perhaps, Dr Jackson speaks favorably of this - D.R. has no experience of it - it should be continued until the typhoid action be nearly subdued -
 here comes in a bundle of a mill race

9 Gentle Stimulants in the declining stage -

The Cure can be summed up in a few words
 Excite a natural instead of an artificial action in the blood vessels - for they are capable of but one action at a time.
 Remedies in the low state of New. fever or Typ. gravior.
 The Prostrate and gangrenous state is the most severe grade of it.
 both the effects of excessive stimulus -
 The blood is generally clotted in these forms -

1. Stimulants - int & external - the internal divided into Medicines & Aliments -

• Fermented & distilled liquors - Col. Alkali &c
 - Wine is most agreeable here as it possesses cordial nourishing & diluting qualities - the white wines are most cordial & nutritious - the red wines less so - of the former 1 or 2 quarts may be necessary in the 24 hrs - alone - or as wine whey - or diluted - Of the red, 3 or 4 bottles -

• Malt liquors - Porter is the best - the bitterness is also good for the stomach - give 3 or 4 bottles a day accord to the system
 • Distilled Spirits to those habituated to them & often to those not when we wish a sudden effect & after wine & Porter cease to have effect -

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• Volatile Alkali from 5 to 10 grs may be given evf.
2 hours in a bolus or in pills or dissolved in water &
blended in Gum Arabic so as to avoid giving uneasiness
to the mouth & tongue

• Empyrenumatic Oils - Oil of Amber particularly - in partial
affections of the muscles - in tumor, or hiccups - 5 to 10 drops evf 2 hrs.

• Aromatic Oils to make other medicines agreeable - the
Essence of Peppermint is most used for this

• Musk & Castor D.R. thinks may be laid aside for many
reasons and on many accounts D.R. prefers to the Musk the
oil of Amber - or Watery Solution or Tinct. of Asafetida -

• Opium - "Ipse Agmen" - it proposes an empire over
all the systems of the body - and when compared to other
stimulants Opium is as the Sun to the lights of candles

— Rules 1. Begin in small doses as 10 drops where
you suspect great accumulation of excitability - such
will often compose the patient & induce sleep where
larger ones will not - these kind of doses will raise
the system to the sleeping point and it is always un-
safe to give it in such large doses as will depress
the system to this point -

2 Let the dose be increased with the progress of debility -
there is no limit to the exhibition of this medicine when
begun moderately - D. Boquet of Paris took 100 grs in a day
for the colic without any bad effect or even relief to his pain -

3. Take care when giving Opium to induce sleep that there be
no previous tendency to congestion or effusion of water, in the
BRAIN -

4. during the day, give it in small doses & in large at night - & in case of extreme weakness the pulse sh^d be watched & if necessary the patient should be awakened and a fresh dose given

5 lay it aside when it ceases to act & use then other stimulants

6. Administer it by Glyster

7. In proportion as the patient recovers, lessen the dose in the same way as it was increased

after Opium temporarily loses its effect use
Rether, 30 to 60 drops every hour in any drink -

• Bank - begin with the infusion - it is a diffusible and ducable Stimulant unless it is given late - after this the following Julep is very good -

R. Bank	℥i	} dose a Table Spoonful ev ^y hour & it may be increased or lessened according to the state of the system - it may be increased up to 6℥ in the day -
Rex. Tinct	℥i℥	
Laud	50 grs.	
Mint Wat.	℥i	
Com. Wat	℥vi	

Also a large tea Spoonful of Bank with Coffee in 1 pint Boiling water, of which take 2 tab. Spoonful at a dose

Bitters - a decoction of Willow Bark has succeeded when all others have failed -

Mercury - Dr. Rush says that even where it does not salivate it does good as a General Stimulant

the ointment should not be used where the smell is offensive to the patient

Pure Air - [Cold air is highly improper] This is not only not injurious but useful - the Yellow Fever has by its use been converted into mild intermittent fever - also by removal from the City to the Country - Patients sh^d be conveyed where they wish in a Boat or in a Sedan chair as violent motion is harmful -

The Substitutes for pure or country air are 1. the removal of those matters which corrupted it

2. large rooms & fires even in warm weather - & if there be no fire places make a fire in the middle of the room on a dish &c
3. Ground floors for Military Hospitals Count Saxe says are the most healthy - fresh earth will obviate the poisonous effects of venenous animal -
4. Smoke, Mr Bruce tells us

Cooks also escape the ship fevers -

5. Open a communication with the external air by tubes
6. Deflagrate Nitre or pour Sulp. Acid on Nitre or Corn. Salt.
7. Place the bed in middle of room & without curtains
8. Allow of few persons in the room and these sh^d never sit on the bed as in these states the lungs are exquisitely susceptible to respired air.
9. Let the floors be rec^d in close vessels in cold water & carried out immediately (Suggested by D. Clarke of the West India)
10. The body linens & shirts sh^d be changed every day & the bodies occasionally washed with Soap & water
11. The floor sh^d be often sprinkled with cold water Vinegar is not good as the beg. matter in it soon putrefies

- in hot weather - Ardent Spirits are preferable -
12. The Air is purer in the upper stories, Sir J. Pingle
13. Few patients with low or malignant fevers sh^d. be confined in the same room
14. Oxygen gas has useful properties -
15. Anemic - Dr. R. has no experience in it here -
16. Stimulants to the Nose - as Ard. Spts - Ether - Ammon.
 " to the Bowels as injections - thus Bark Wine
Ardent Spts - Turpentine & Warm water have often
 procured alleviation
17. Conversation (not Talk) upon light subjects - the under-
 standing of these gently exercised will excite the whole system
18. Anger - Anecdote of a Bell ringer who tho' very ill became
 so enraged at the continued bad ringing of a bell in his
 neighbourhood that he jumped out of bed insisted on
 going & hitting the fellow right - he recovered -
 also of a man who had published a book
19. Terror once cured an American Sold. of the Typhus -
20. Love also & Courage -
21. Good news - public or private - these sh^d. be applied only
 about the crisis of these fevers or where excitability is nearly
 exhausted -
22. Pronouncing a popular word or happy event has often im-
 parted strength to the body -
23. Hope in the low stage of fever by exciting an idea of
 recovery by telling them of the recovery of other patients -
 - Gloomy visitors sh^d. be kept away -

The suggestion to the Patient of making his will or of calling a Clergyman should never come directly from the Physician, but thro' some of the family —

— Stimulants from Aliments

1. The vegetable — as Sago — Oatmeal, Tapioca — Mush milk — Potatoes — Broth — Roasted Apples — Custard, Arrow Root, Rice &c. — all of which sh^d be made cordial with wine & saucy with spices

2. Animal — Broths, Oysters, fish, soft boiled eggs, wild fowls boiled or roasted — beef steak & mutton come last — These are not only safe but extremely useful. They do service in 3 ways — 1st by gratifying the patient his sense of taste is generally awakened the 11th or 15 day of the fever —

2^d By the new stimulus on the Stomach & thence to the whole body —

3^d They impart more nourishment for the renewal of the blood & thro' its vessels invigorate the whole body —

We must not always depend on the appetite to regulate us but must give food constantly repeated at short intervals — also in succession & rotation.

3. The external Stimulants — Heat in various ways in its dry form to trunk & to the extremities —

- Frictions — with dry hand & flesh brush — pinching also
- Strong solution of Salt & water — bitter in water —
- Ammoniac as a liniment — also strong hot spirits —
- The vol: Stimulants confined by flannels —
- fomentations to the lower extremities extended to the knees

and kept on for at least ^{160.} one hour

• The whole body wrapped in Blank Liquefied by laudanum.
• Plasters to the Head & thrust of the body only - They remove delirium & pain in the body

• Cataplasms to the soles of the feet - begin with
1. Salt & Vinegar - then Onions - then gentle bruised
in linen bags or with bread & thick & lenity Mustard
alone or with rye flour & vinegar - keep them on 'till
they become very painful - we often extend them up
to the knees - also on the wrists & arms

• Boiling water near to the head & throat

• Cauteries & scarifications have someth. done great good in
Typhus fev. - the gradual loss of blood here favourable

• Light - a pleasant & powerful stimulus & should be much
attended to in full action of the blood vessels -

Sound. acts with great force on the body - particularly on Soldiers
labourers, horses - even - There can't well not go well in
Portugal without the creaking of the carts they are driven
in -

• Affusion of Cold water, Dr. has no experience of it -
but supposes it may be of great use where the system is
not below the reacting point - it stim. by its force also
Dr. Jackson advises the previous application of warm
water to awaken the susceptibility & to give wine
during the operation - # tepid water is best -

Cautions to be observed.

1. Beware of forcing sweats in these states of fever, they deplete too much and are as improper as a moisture is salutary -
2. Beware of purging in the low states of fever - 1 stool will be enough in the day or even less - but in the autumnal fever, glysters might be given daily - 1 small dose of Calomel - but we must prevent a Diarrhoea by laudanum and where the weakness is extreme, 3 or 4 days may elapse without a stool -
3. Inquire every day of the state of the urinary discharges, where stricture exists the Catheter should be employed -
4. Do not permit your Patients to sit up even to discharge their excrements, fainting, convulsions underneath from neglect of these cautions - the head should lay in a line nearly parallel with the body -
5. Beware of using the warm bath to the whole body - an oil-cloth bag may answer or warm fomentations to the extremities an excellent substitute - also wash from the body the sores every few days with soap & w. wat.
6. Beware of indulging in cold drinks - if any give in very small quantities - the demand of Nature in the last stages is an alarming thing
7. Beware of permitting them to sleep more than 1 or 2 hours at a time - Saw when they take medicine or refreshment - Life here hangs by a single hair - we must except in this caution those cases where Opium has been given to induce sleep - the stimulus of the Opium is sufficient -

8. Beware of all the remedies and cautions. I have given you — for they may become all injurious and unnecessary from the peculiar type the fever may put on — The malignant & gangrenous state often ascend in a few days into the inflammatory and elevated — The Yellow Fever of '98 did not at first admit of bleeding but the pulse often rose on the 5th day and required it —

Abstine — Sustine — Siste — I wish they were all engraved on the dial plate of the watch of every Physician —

Of Convalescence

The debility that is now present must be treated by Cordial Medicines and Aliments suited precisely to the excitability of the system — otherwise many Convalescents expire like Genl Wolfe in the very arms of Victory — Convalescence is a compound of debility, excitability and small portions of discrete — The system is now therefore predisposed to relapse

Remedies to prevent a relapse

1. By abstracting the wine, Spirits, Animal food &c — a meal of animal food has excited the plague in 40 days after recovery —
2. Avoid a current of air — and too light clothing — odours — gratification of venereal appetite — sitting up or riding out too soon — too much company &c — all these should be particularly attended to more during

the full & changes of the Moon & more so during an Eclipse
 relapses are often more violent than the first attack —
 when but small portion of the disease is left and is
 thrown in the head, lungs, and liver and the pulse
 is such as not to admit of bleeding, Calomel will
 be best —

if the pulse will admit it then bleeding & other depleting
 remedies — be assured they are safe —

• Wakefulness should be remedied by a few drops of
 Laudanum or a small dft. of Porter —
 • Sickness at Stomach sh^d. be removed by Elix^r of bitriol,
 Chamomile tea — Ruxams Tinct of Bark &c and
 also by eating in the night

• Swelled legs, ~~thus~~ removed by rubbing them upwards & only
 in the morning — Continence & voided by Rhubarb.

• The hair often falls off — & somet. becomes grey —
 we also see impairment of Memory, the understanding &
 these however give way to Exercise, time & Cordial drinks
 or depleting remedies — There is also great venereal
 excitability left — it goes off by exercise &c.

Remedies for debility following the low states of fever —

1. Cordial drinks and diet — begin with milk & bread &
 summer fruits — pulp of roasted apple — also tea, Coffee
 Chocolate — a little butter — Oysters raw or half roasted
 Chicken &c — & lastly Wild fowl, Beef & Mutton — Ham &c in
 small quantities 3 or 5 lb. a day — Porter, Wine & Water &c
2. Hurry your Patient out of his sick room as soon as possible
 it acts as a sedative — change his dress for the same
 reason — a Lent. of Cassia always cured him of

low spirits by changing his Cloaths 164

4. Gentle exercise in a Carriage — but avoid fatigue
here the mind as well as the body is invigorated —

5. In damp weather he may take occasionally the
tinct of Bark — 3 or 4 spoonful a day but do not
continue it longer than a week —

They act (Fever) 1. by the removal of habitual
chronic diseases — The Gout &c. has been removed by the Plague
2 by creating an increase of strength, James &

Boys often grow rapidly after an attack of Int. fev.

3. Barrenness has been removed by a violent attack
of fever

4. The body is elongated by a Chronic fever —

5

All continued fevers are protracted cutaneous & where you
must give Bark give it on the non critical days —
Balfour, Pineau, Manley & Gilliespie bear testimony to
the greater malignancy of fevers from the influence of
the Moon — 3 days before & after its full — give therefore
at this time more energetic medicines & prevent debility by
tonics & guard against ~~exciting~~ exciting causes & relapses —

In a Prognosis sh^d. be included 1st The Issue of a
disease in life and health — 2^d in another dis or in a
curable chronic one — 3 In an incurable disease
4. in death — a just prognosis advances much a
Physician's reputation —

The signs of life and death vary in diff. countries and at different times and in the same diseases — They vary too in different grades — diaphresis is fav. in Chronic fev. it is unfavourable in Yellow Fever — There is also a diff. in Adults & children & in middle life & in old age — in the robust & the delicate and in the different sexes; from having short lived or long lived ancestors — from the sober and the intemperate & lastly they differ in Slaves & in Free men.

6 The violence and danger of a disease may be predicted

- 1 By the fev. attacking suddenly, without premonitory symptoms
- 2 Fever creeping on
- 3 Disease coming on hiddenly without fever is alarming
- 4 Danger is great
- 5 Paroxysms that are worse on
- 6 By the recoveries being sudden
- 7 It is a bad sign in malignant fevers for a patient to say he feels too well & to dis cover marks of great composure —
- 8 Chills are fav. in the close of chronic fever
- 9 Protracted fits are fav. — Anticipating ones not so
- 10 Violent fevers are attended with great danger in pregnancy from the system of under the operation of two diseases —

Unfavourable symptoms

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1. In the Bloodvessels - a Pulse preternaturally slow, partic^y in Children, indicating a Cerebral disease - so is an intermittent pulse

. Pulse above 120 is alarming, partic^y if quick & frequent this D.R. has called a rapid pulse - there are few recoveries where the pulse beats 180 in a minute - D.R. once felt 204 in a min. [The ordinary pulse of horses is 40 no recovery takes place in them, after a pulse of 100.

. A natural pulse in malignant fev. is alarming - we are to look for a preternatural one in convalescence also, otherwise 'tis alarming

. In diseases of the breast, the pulse can be less relied on than in dis. of ^{some} other parts -

. Hæmorrhages are less alarming in the begin^g of fevers they are most dangerous from the Liver, kidneys & gums -

2. In the Skin - 1. Partial heat & coldness - but cold hands & feet with warm breast is more so -

. Coldness at the wrists ex. unfavourable and with warm round fingers is gen^y. fatal

. Continued Chillness

. Calor mordens, alarming, partic^y if diffused all over.

. Convalescence with heat is unfavourable

. Eruptions are favourable in any stage

. Sores about the mouth, tip of tongue & lips favourable when they appear after the 3^d, 5 or 7th days - but

Unfavourable about the pharynx - larynx - oroph. - root of tongue

. Drying up of an old sore unfav - its return favourable

. Blisters not rising or the parts be^g. soon pale & healing -

- The swelling of the abdomen about the pubis unfav.
3. In the Tongue - a white tongue in Typhoid fever is seldom alarming -
- A yellow tongue indicates bile, 'tis not alarming -
 - A red smooth tongue is generally fatal
 - A black colour is vf. unfavourable pointing, if dry - but recollect Tobacco, Claret, Fruit &c, giving a black col. also -
 - Queen Dr. R. saw one case, it terminated fatally
 - Dry tongue is unfav. and after b. dry becoming midly moist is less fav. than a gradual change to the tip & sides
 - A Putrid hot tongue is unfav.
 - A Putrid, cold one is fatal
 - A natural tongue in malignant fev. is very alarming
 - so is a lividness of ends of fingers & nails
4. In the Countenance - A frozen or extreme placidity, sudden resemblance of an ancestor are all unfav. -
- This last arising from the falling away of the flesh - the shape of the bones are thus shown and in this, resemblance most genl. consists -
- A Pewish Countenance is unfav. For a red face be g. mid g. pale
 - The Hypochondriac face is unfav. & indeed generally fatal - 'tis this - sunken eyes, pinched nose, hollow temples, glassy eyes - coldness of the cartilage of the ears & the lobes inverted - the face livid or lead colour or pale or black -
5. In the Muscles - great muscular debility in the begin^g of fevers not very unfav. - 'tis genl. removed by depletion -
- ~~but~~ as there is a depressed pulse
- Convulsions in the beginning are alarming but in the last stages genl. fatal -
 - Sliding down in the bed & picking of the bed cloaths vf. unfav. -

- Kickup is always fatal
 - Gravelling of the teeth always unfav.
 - Changing the posture is somet. fav.
 - Pisapism is somet. fav. somet. unfav. accord to state of system
- In the Nerves & Senses

- Insensibility to cold - great heat, burns & blisters - a sudden restoration to sensibility is fav.
- Sneezing & yawning are fav. - it shows the return of old habits
- Pain long protracted is alarming & more so at the crisis there is but little danger in pains of the limbs & back - they were fav. signs in the cell. fev.
- Pains ascending more fav. than descending - they show most vigour in the system -
- Moving pains are less alarming than fixed
- Pain is fav. - after bleeding &c. in the beg. of fevers
- Absence of pain in malignant fev. is unfav. - but less so, if with it there be a tense pulse
- Burning sensation in the bowels, & stomach unfav.
- Itching of scalp & tip of tongue unfav.
- Return of habitual dispositions fav. - or ^{an} old chronic or old physical habits -
- Absence of taste unfav. - so is a bitter one but an acid & salt taste is fav.
- Acute sense of odours in genl. unfav.
- Contracted or enlarged pupil ^{irritant specks about them} also - intolerance of light
red or muddy eye ^{livid or black veins in them} - continued motion & winking of the eyes
eye half closed in adults - double vision - one eye large,
glassy eyes, false vision - redness of the eyes - involuntary
tears, squinting, blindness - film on the cornea -
the pupil of a lighter colour and the seeing a rainbow are

all generally fatal

- Diaphres in mild fev. favourable, ^{if} obs'd by Husan
- " in malign. fev. unfav. Dr. R. has often seen this in the yellow fev.
- Hearing supposed sound - & pain arising from light noises unfav. - Acute hearing superior to that in health is fav. or unfav. according to the strength of the system
- Patients looking round at noises at the opening of the door is fav. Celum says sleeping 3 or 4 hrs. after day light is fav. Waking at night & sleeping in the day unfav.
- return of easy sleep on a critical day is fav.

7- Respiration - Breathing slow - an expansion of the nostrils - elevation of the Chest & abdomen unfav. - the more voluntary respiration is, the worse

- Cold breath and a rattling noise & moaning
- a drawling voice is unfav. - & speaking in a whisper often is

8. Glands & Lymphatics

- Glandular swellings are fav. in mild fev. less in malign.
- Anasarca " in the face & limbs, favourable
- A hawking & spitting fav.

9. The Appetites Intense thirst is alarming - particularly if the patient express himself in extravagant terms as "Oh I'd drink the Delaware up" & such like & particularly if accompanied with dry or black tongue -

- its sudden cessation is also alarming
- Thirst is fav. in mild fev.
- " is unfav. for uncommon drinks & for ex. cold water
- Swallowing with difficulty & with but one swallow at a time unfav. appetite for food unfav. & still more so for unusual aliments

• voracity unfav.

• Revival of appetite with diminution of bilious symptoms always fav. so is the relish for tobacco if formerly used

• Revival of the sexual appetite is genlly. fav.

10. Sweats - Profuse & on critical days & with easy respiration, genlly. fav.

• Soft state of the skin fav. in erythema

• profuse sweats (on to the head, neck & breast) alarming

• Saline taste & odour of the sweats fav.

• but if putrid odour, death is giv'g at hand - does not the howling of Dogs, that often occurs when persons are dying of malignant fevers, proceed from this same of this odour?

11. Urine - its suppression - pale or very high coloured, scanty or profuse - coffee col^d & black are all alarming -

• involuntary discharge of urine alarming

• cloudy urine is fav. & more so if sediment be gravelly -

• milky urine indicates a tedious disease

• Burning urine is fav. - so is stinging from blisters -

12. Stomach & Bowels, . Constant nausea unfav.

• vomiting at the close of fever is always alarming and a discharge of bile, blood or mucus more so

• gulping or puking air alone always bad

• belching in a stream also

• vomiting liquids as taken in

• obstinate costiveness, alarming

• white feces unfavourable

• Green & dark coloured more fav.

• involuntary stools & discharge of wind per Anum without noise - always bad

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• regular dis. of stools at the usual hours & of the natural colour fav.

• Discharge of worms in the beginning of fever, in the stools - if with slime and alive, fav - but if discharged dead not with slime unfav, in the close

13. State of Mind - Apathy alarming

- Silent delirium & with dejection alarming
- Good humour always fav, so ill humour about the crisis
- Inquiry aft. news fav, where it has been suspended by a sense of danger -
- Inquiry after the hour of the day or night unfav.
- The desire of b^y removed to another room or place unfav
- The desire of life when v^y strong fav - acts as a stimulus
- Slow answer to questions always unfav.
- A Penitence that he will not recover is bad
- Want of solicitude for relations & absence of nat. affection unfav, and a return of this fav -
- Return of any mental habit is good, particularly of wit or good or ill humour -
- Apologies for disorder of room or dress fav - it shows a return of accustomed habits & associations -

— but nearly all of these sometimes deceive us —

— If we are faced to give a prognosis to our Patients' friends let it be unfavourable - for should the Patient die our judgments is shown - should he recover, it will be placed to our Skill

• Cold wrists with warm hands & half closed eyes I have never seen patients recover from - says D. Rush -

Bilious Autumnal fever — forms —

- 1st The Mild Bilious fever — see Clegg, Hilary, Clark, Jackson &c — its causes the same as those of yell. Fev. the pulse of the Synocha —
remedies — Venesection, Pinger — Vomits where there is great nausea & ineffectual attempts to vomit —
 Cool diluting drinks also cold water to skin (hands, feet & head)
Blister about the 4th day often act like a charm —
 when it puts on the Int. type Bland gently cures it — if the
 stomach will not bear this, then any of the Blisters of the shop,
 a salivation is seldom necessary —
- 2^d The Inflam^y. Bil. fever. — it gently guides to 3 or 4 bleedings
 plentiful pinger towards its close & Blister —
 if all these fail a salivation
- 3^d Yellow Fever — see Dr. Rush's printed works —
- 1st form — after the 3^d day the Patient thinks himself much
 better — the skin bec. cool — pulse regular — appetite returns
- 2^d — on the 4th day a depressed pulse & prostration but not after
- 3 — Great oppression, yielding to venesection & diluting remedies
4. it appears in an open synocha pulse —
 also in Cholera — Dysentery, Diarrhoea, eruptions, palsy,
 Apoplexy, Coma & other convulsive affections — Buboes, Car-
 buncles — Motes on the skin — intermittent partly the tertian
Chronic Inflam^y — or Chronic low Typhus — Chronic Typhoid
Febriacula [mild & few — with pale or flushed face]
 in a dumb form — with full, tense pulse — no sickness or pain
 this is the walking state — it appears in an early universal
 yellowness — this is seldom dangerous — in profuse sweats
 in a burning skin — in great constant disp. to fainting — in
 constant coldness of the skin — in petechial spots on the skin —

Remedies for dangerous symptoms (173.)

1. Vomiting — venesection if pulse active — washing the Stom.
with warm wat. — weak chamomile tea or Peppermint
tea or Virginia Snake root tea — Milk — also Milk and
lime water 2 parts of M. & 1 of L. or equal parts —
sweet oil — sweet oil, Mollasses Milk equal parts
Opening Alkaline salts in solution if pulse be reduced
anodyne glysters — glysters of warm & cold wat. — Oats roasted
Spirits of Turpentine 10 drops w^h 2 hours in Mollasses or
sweet oil by D. Physick with great advantage & ^{at the same time} injected }
White bitriol 2 ℥ — Laud. 30 drops Mint wat. 5 ℥ — a tab. upon
pulse w^h hour — total abstinence from drinks Medicines —
Blisters to pit of Stomach — wrists and ankles — hands in
cold water — cold wat. to region of Stomach — Artificial
Seltzer water one of the very best remedies — Yeast alone
or mixed with water

for the Black vomit

Milk & lime water — Opium in large doses & injected — Cayenne
Pepper —

For the Diarrhoea — testaceous medicines Laud. in glysters —
pain in the Head — hot & cold water —

" Bowels — glysters of cold or hot wat.

" Stomach — gent. friction with Sweet Oil Laud. —

The Plague In Asia, Africa & Europe has always been derived
from noisy miasmatic exhalations — in hot Climates this at-
tended with greater prostration than the Yell. Fev. — it affects the
lymphatic glands more than the Y. F. & the skin with petechiae —
carbuncles &c — it has appeared in sweating forms —

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The Intermittent form — for its history see Cullen's 1st lines
It has even been induced by a Salivation

• The Quotidian comes on in the morning, Tertian at noon
Quartan at night —

• The Remedies just before we expect the fit — we must be
acquainted with its signs —

• 20 to 30 drops of Laud. • a spoonful of black pepper in
a wine glass of vinegar — Sulphur + Spirit —

• Audent Spirits — Wine Terror, riding a hard horse
sweating profusely before a fire — warm bath — cold do
Dancing — Dr Rush has found success in the Laud.

These Remedies however only suspend the disease and
seldom cure it —

Remedies for the paroxysms — 1. If the pulse be tense &
full and there be an inflamm^y. disposition in the air
and signs of congestion in the head liver &c & also in
Spring Int. then bleed accord^y. to the state of the system —
one bleeding will do more for preparing the system for the
Bark than half a dozen fits as is the mode often
among Practitioners — and at the same time it
will save the Constitution — This often converts it
into a continued fever & is then easily cured —

Dr. Rush was called to a patient who had had a tertian
for 3 months — he bled him once & cured him in 8 days.

• Along with bleeding give purgs & emetics — apply cold wat.
by bladder to the head &c — if there be vomiting give
Seltzer or Soda wat. or a little Laud. — also 2℥ of Chalk
with 2℥ of vinegar taken in the act of its effervescence —
• If there be much pain — Laud. is partic^y. useful —

Remedies in the Intermissions 175.

Bitters of all kinds — also Astringents — also the two together
Spices and Aromatic substances, the Tourniquet to the
thighs for 10 or 15 min. Glue is taken internally in
Gummary (indigestible nature)

Bark alone or with Seneka — in superior cold &
hot just before the paroxysm — in extract —
fasting lying in bed all day — if the Stomach
reject the Bark apply it to the body in a quilted jacket —
we may give with the bark, cloves — or Iron — and
they may be rotated & mixed to the patient —

They all act as Stimulants.

— They often all fail from the following circumstances

1. From their being in the system an inflammatory diathesis
then we must bleed

2. From visceral obstructions — bleed if pulse be active and
give small doses of Calomel.

3. From b.g. given in too small doses & somet. in too large

4. From their long use — we must lay it aside or combine

5. From Costiveness, when, add Rhubarb — for Diarrhoea laud.

Arsenic in a solid or fluid form — solid $\frac{1}{15}$ of a gr.
fluid 6 to 10 drops of Fowler's Solution 3 or 4 times a day
this is particularly good for Children

Blisters then have often put off the fit & even cured —

Intoxication will break a morbid habit —

Salivation — D. Brand introduced it —

Change of Climate or situation partic^{ly} if the Patient
be exposed to nois miasmata — Medicines somet. fail
of doing good, until after we leave off using them —

176.
Means for preventing a Relapse

- 1 or 2 doses of Bark every day for two weeks after the cessation of paroxysms -
- avoiding the early morning & evening air
 - being warm & dry cloathing
 - using cordial but not very nourishing food
 - avoiding fatigue - and lax or constipated bowels

Marked forms of Intermittent fever

1. In periodical head ache - tooth ache - sore eyes - sciatica &c
remedies, bleeding, purgings - tonics, blisters & bark -
2. In convulsions - here decayed teeth should be extracted &
the remedies as above according to system
3. In periodical Mania - remed. as above & attention to the
state of the mind - bring back the Int. fee when Mania
loses its intermittent form
4. Periodical vomiting of Bile
- 5 " Dysentery - bark &c
- 6 " Coma & Apoplexy - Q. S. Bark & Blisters &c
- 7 " Gleet
- 8
- 9 " Stictatopia (inability to see aft. night) - Bark -
- 10 " D.R. saw Periodical Dropsy - it app. only in the intermission
- 11 " fever of part of the body -

The Consequences of neglected or ill cured Intermittents

1. Pulmonary Congestion - Cough & fever - Hemoptoe
Blisters, Low diet & if all fail a Salivation
2. Obstruction of the Omentum - Liver & Spleen -
remedies - Mercury, Rhubarb, Bleeding
3. Large or swelled legs
4. Jaundice & dropsy of abdomen &
5. Hectic fever - salivation

The Intermittent fev. is contagious under certain circum-
stances - as from putrid sweats &c

Chronic Bilious fev. - commonly tho' improperly
called Nervous fever - the remedies to be varied as
the pulse is Lynoceta, Lynocula, Typhoid, Typhus &c.
- Keep the bowels always well open bleed if the pulse
demands in the close of the disease and even on the
40th day if the pulse be active

Febricula - or slow fev. - there is a quick pulse,
dry tongue, heat, little head aches, high coloured urine
remedies emetics, gentle purges, blisters & after Bark -
visitation of the pulse be corded -

Difference between Hectic & Intermitting fev. -

There is less head ache in hectic - the fits gent. change their hour
attack - appetite is unimpaired - sweats give no relief - chills often
in the midst of the fever - urine turbid in fits clear in inter. - great
pain in the limbs - swellings somet. suddenly appear &
disappear - hectic comes on gradually with wasting of body
hectic colour - circumscribed & deep on the cheeks - this an
insulated fever - the bowels are in a nat. state -
- it is very difficult to cure -

This fever it is said attacks gently, about 40 or 45, obstructions being more general at that time the pulse is most usually typhoid - rarely typhus previous to internal remedies. Surgery sh^d. Do its utmost to remove all obstructions it can. — This disease is insulated in the bloodvessels and it cannot be assailed thro' the medium of the other systems and hence it is more difficult to cure. — The Tetanus is alike difficult to cure from the same reason — for it seems to be a law of nature that when there is a local injury there sh^d. be a local inflammation and when there happens no local inflam. some one of the systems takes it on & becomes diseased —

Remedies — Emersion if pulse be Synocha — ocular & occh. id. Putre in small doses to reduce the fever, if the pulse will not bear the lance —

- Milk diet, particularly if there are ulcers —
- Infusion of malt — “ “ D.R. has seen good effects
- Quinine — mostly in obstruction without inflammation
- Bark gently aggravates it except it be of the Typhus kind
- Bitters, Mineral acids & Digitalis are rarely successful

This disease adheres to the system like the shirt of Hercules it has been shaken off by Exercise on Horseback long continued —

- Salivation & Labour — from all its causes — their effects are revolutionary & the remedies cheap —
- What w^d be the effects of tearing it from the bloodvessels fixing it in some other parts — say by violent remedies — Turpentine on the body &c.

179 -
Fever by excessive dose of Opium

Remedies - 1st The ejection of it from the Stomach by an emetic - or snuff - or Jeathier &c. or distend the Stomach with warm water say a gallon - it also dilutes the Lard: if these fail employ the Catheter & Syringe & draw it out as has been successfully done by Dr. Physick & if vomiting be excited without relief then V.P. - if the pulse admit or if there be signs of oppression - affusion of cold water - cups to the temples & in a prostrate state Stimulants - cataplasms of mustard - Cordials &c. Dr. — recommended flagellation to excite a counter irritation [it was tried with success in Lucien Mullen s.]

. From an overdose of Opium Ientify if any time have intervened The Stomach mostly loses its susceptibility & cannot be roused by the most powerful emetics - in such cases Vinegar has been taken someth. by accident, & often by design with the happiest effects s.

Fever from bite of Rabid Animals.

- The Hydrophobia assembles fever from all its causes
- it is now and then induced by other causes than the saliva of rab. animals —
- it cannot be communicated by human persons, not even by kissing or coition — nor by the blood of animals — their flesh may be eaten — it has been communicated from the saliva of a rabid lap dog applied to the lips —
- It is a part of the great Unity of Disease & is only to be cured on the same rational ground as other dis.
- It is generated spontaneously in Dogs, Hogs, Cats, Foxes and Wolves & propagated by them only by biting
- its causes are Putrid & scanty aliments —
- great heat and want of water —
- if the dog bark 'tis with a hoarse bark —
- The Animal is not mad but merely bites to ease his pain, for he bites inanimate objects only —
- The disease cannot be communicated unless blood be drawn or the cuticle abraded

Treatments. 181.

1. Of the wound - it should be cut out where practicable & this may be effectual even for weeks after # - and it is equally proper here should the skin be only abraded - the wound sh^d be dressed with some stimulating ointment and kept open for 2 or 3 weeks - or with caustic, the nitrate of silver or with common eye or hot vinegar or hot iron in its white heat or barely to inflame the wound - then the pain is much lessened
Ablation from mouth of a Kettle for $\frac{1}{2}$ or 1 hour
Suction - this has prevented death from poison from an arrow - the wound sh^d be kept running for weeks after excision is perhaps the only certain remedy - the time elapsing is from 1 month to 6 weeks but it has occurred after 18 years - the Vaccine has not appeared for a year after -

it discovers itself in a morbid affection of the Nerves the pulse is seldom affected on the 2^d or 3^d day - in the latter stage the bloodvessels are -

or at any time before symptoms of the Disease take place If the wound have healed it must be opened afresh & as much inflamm. be excited as possible - Tetanus is thus prevented & often cured "Pars dolens trahit" recollect this - . . . The larger the wound by the animal the less danger - This fever when formed is like others of different grades - it is also attended with spasmodic affection of the Larynx - glottis & epiglottis the patient being unable to swallow Liquid -

The Unmediis according to the State of the system is

- In the Synochus &ocha state Bleeding
- Purges, by a syringe
- Sweating remedies, external & internal - the latter by syringe when necessary -
- Salivation, as the sweating remedies -
- In cases of weak morbid action or great prostration, powerful stimulants ext. & int. throwing the patient into a pond as if to crown him, creating terror -

Dr. Rush asks if the following might not answer

- 1 To excite sudden & violent inflammation on the whole surface of the skin by Spts. of Turpentine - Plasters, Mustard or Hot water? - Shallamzani caused a Viper to bite a dog & cured him thus -
- 2 Pumping on the patient for several days?
3. Exciting external infl. on the glottis, larynx & epiglottis by Spanish Flies, Mustard &c. or by extensive caustic on the throat? and with these internal unmed? as 1st Emetics - repeated doses of strong emetics? - There is great sympathy bet. the stomach & larynx - large doses of Volatile Salts - Ether - Alcohol - Castor Ointment - Oil of Amber & with these Mercury - also Aromatic Spirits Bark - Mercury - Anafatida &c.

Dr. Shoobred of Calcutta cured 4 cases by bleeding till fainting - the 1st effect was to swallow - the 2^d a bil. discharge from the bowels - 3 - Produced Sleep - 4 reduction of pulse 5. Sense of heat & desire to be fanned -

This disease is somet. a symptom of malignant fever -

183,
Fever from Poisons.

They act primarily on the Stomach or bowels or blood-
vessels - remedies are 1st to discharge them from the
Stomach by emetics as for liquid land. swallowed —
or 2^d to render them inert by blunting or decomposing
them or by exciting another action in the Stomach —
if inflamed. be in the bowels it will be blunted by
milk, oil or melted fresh Butter or warm water by
spoon or syringe & if in violent pain bleeding —
if corrosive sublimate be swallowed, a little Alkali
will render it inert — sometimes the poison is
taken into the bloodvessels by the wound — then ligature
above the wound —

If the disease appear in the Bloodvessels, the remedies
will be as for fevers from any other cause —
— bleeding — purging, and after them Sweating remedies,
partly if Nature indicate them — if there be a feeble
morbid action in the bloodvessels then Stimulants & cordials #
The caustic Vol: Alkali has been used with great success
in France — # Misture & to the skin along with them
applying a strong irritation on the Stomach —

In the Cold & chilly state of fever - remedy is venesection its effects are rapid in diffusing heat over the body -

Petechial fever - there is no febrile heat here - it appears to be a malignant fev. suffocated in the skin remedies are Bark, wine &c - if these fail venesection might probably be useful

The Intestinal States of Fever
Diarrhoea, Dysentery, Cholera Morbus & Colic -
 all of which are intoxicated states of fever

1. Diarrhoea - acute - in the summer & autumnal months - there is a copious discharge of liquid stools with little or no pain - somet. a burning in the Anus - the remote & exciting causes act primarily on the whole system or primarily on the Alimentary Canal - Cold to the feet & a wet shirt has induced it

a current of air on the whole body or part -
 causes acting primarily on the bowels are

1. The eating Animal food after long living on Vegetables
 2. Eating tainted food - Unripe or sour fruits & an excess of ripe fruits - some drinks - except of bitter teas & cold water - these are the exciting causes only. The seeds of the Dis. previously in the system - the remedies are

1. a gentle purge or emetic with a dose of Laud: at bed time
 2. Diluent drinks - Chamomile tea with Laud. mixed with it
 3. An injection of 30 or 40 drops of Laud: for 4 $\frac{3}{4}$ of flax seed tea
 4. Venesection if the pulse require

[I have for convenience introduced the Diarrhoea without fever, tho' Dr. Rush treated of all the states of fever p. 12

Of Diarrhoea without fever

1. The discharges are of a brown, green or clay colour.
2. " Mucus only - D.R. calls this a gumous haemorrhoea of the Bowels }
3. " Water only -
4. " Pus only - an ulcer here penetrating in the Bowels
5. " a lentery

remote and exciting causes

1. Acid Bile - peculiar Diet - some liquors

2. Drastic purges - 3. Worms -

indirect causes are cold & damp weather - hoirs -
miasmatic exhalations

Gout - Dysentery - Pregnancy - Conflict bet. the Veins
and Arteries - it sometimes continues for 20 years -

remedies according to the state of the system & to its causes

1st. If pulse diminished - bleeding

2nd. Purges - Rhubarb in substance, tinct or what is preferable to both, the Syrups

3rd. Emetics -

4. Opium small doses during the day in a pill & large
at night in the form of Dovers powders - we should
not fear exciting the Brain -

5. Demulcent & Diluting drinks, Flax seed & Mallows Tea,
Gum Arabic, Milk $\frac{1}{3}$ boiled with $\frac{2}{3}$ water -
Chicken water &c -

6. Astringent & Cordial medicines

1st. The Chalk Julep

R - Creta ppt. 1 to 2 $\frac{3}{4}$ }
hand: 1 to 3 $\frac{3}{4}$ }

Cinnam. or Mint wat. 1 $\frac{3}{4}$ }

Com. water 5 $\frac{3}{4}$ }

1 table spoonful evy 2 or 3 hours -
with loaf sugar, shaking the vial -
add to this if necessary 1 $\frac{3}{4}$ of Salt of
Tartar from $\frac{3}{4}$ to 1 $\frac{3}{4}$ of Gum Rais -

2. R. Galls $\mathfrak{z}\text{ij}$ } boil it to half a pint - strain &
 Nutmeg or } add Brandy $\frac{1}{2}$ a pint with leaf sugar
 Cinnamon $\mathfrak{z}\text{ij}$ } and of this give from a table spoon
 Water — 1 pint } full to a wine glass 3t. a day.

3. P. Powd. Leaf Sug. $\frac{1}{2}$ } take 2 tea spoonful
 Brandy $\frac{2}{3}$ } every 3 hours —

4. Fine Wheat Flour $\mathfrak{z}\text{ij}$ }
 Brandy $\mathfrak{z}\text{ij}$ } as above

5. Vinegar & molasses $\frac{1}{2}$ a pt. - boiled together - take from
 a table spoonful to a wine glass, warm, 3t. a day —

6. Punch made into a thin syrup —

7. a sheet of paper boiled in a quart of milk
 drink a quart daily —

8. Chalk $\frac{6}{3}$ } intimately mixed & divided into
 Pomegranate Bark $\frac{3}{3}$ } 12 doses - take 1 3t. a day - this
 Nutmeg $\frac{2}{3}$ } is Hebbudon & Dr. Rush has used
 Laud 36 drops } it with much success

9. The Powder & infusion of Tarnentil

10. White Vitriol 2 to 6 grs. 3t. a day —

11. $\frac{2}{3}$ Wax with $\frac{1}{3}$ Tar melted into Pills

12. Inner bark of white Pine - decoction, Indian remedy

13. Mutton Suet boiled in Milk say 1 pint with Harch
 & Leaf Sug. 2 or 3 \mathfrak{z} . — These should all be assisted
 by Glysters — we sh not inject more than 4 \mathfrak{z} — & add
 to each a few Drops of Laud:

• Rice — Boiled Milk — Arrow root boiled with
 Cinnamon — Toasted Bread — Summer fruits but astringent
 fruits sh be avoided —

- a Diet exclusively of milk
- Plasters to the wrists and ankles - counteraction excited
- Warm Bath by Dr. Tiltson } these act like
- Cold Bath cured D'Ewing } Plasters —
- Warm sweaters - tight bandages round the belly —
- Exciting Arterial action — how would it do to excite action in the Brain ?
- Salivation recommended by Dr. Clarke
- Exercise on Horseback —
- Change of residence
- " of climate - reverse of the former —
- Sea Voyage by the vomiting induced
- Dr. Bouette applied astringents to the soles of the feet
- Caustic to the external region of the liver is that organ is often affected —

Favourable signs are

1. Fear discharged before wind
2. Acid eructations
3. Stools compact — also very thin —

Sores in the mouth unpar so is a Lientery —
 Hippocrates says "In Lienteries of long standing, an acid belching where nothing of this kind has happened before is a good sign — but at this time should try to irritate Nature; for such disturbances make a great alteration and perhaps acid belching will carry off a Lientery" (Page 115. Clifton's Hip.)

Dysentery. This often comes on with Diarrhoea - it more generally attacks with a stoppage of the secretion of bile & with vomiting -

- The Patient genly. has great pain in the lower bowels particly in the Colon & Rectum — when the disease is in the upper bowels there is no pain but great sickness & anxi-
tas inæcualis — somet. both the upper & lower bowels are affec-
t. pain is also in the muscles scilicet hypochond —
- now & then it comes on without pain
- there is somet. great weakness
- there is tenesmus from an ulcer in the rectum, cyballæ in the intestines &c. somet. an affection of the bladder — somet. uterus —
- The pulse in the beginning is seldom much excited
- Pain in the head & delirium is rare here but where oc-
curring it indicates great danger —
- The disease often terminates in a few days

The discharges are according to the dif. grades of the disease

1. Blood & mucus — 2. Blood with feces — 3. Mucus alone
from the large intestines (a Gonorrhoea of the Bowels)
4. Feces of mucus without blood, called dysent. inæcualis by Morgagni
5. Cyballæ — such like balls called by Pringle Corpora pingua
6. Serum — 7. a membrane [the fibrin of the blood, coagulated by the blood vessels of the bowels]
8. Blood alone in large quantities, generally from the Liver or blood vessels near it — this kind of dys. is genly fatal Dr Aitken calls it Dysenteria hæmorrhagica — 10. Worms —
- The "dry dysentery" — there is pain but no discharge — it is the disease in a suppressed form which takes place whenever morbid excitement transcends the excitability of the part — it assumes the open form by depletion —

It prevails more in high than in low situations — the cold air refreshing the perspiration and turning it in upon the bowels — Germantown is 400 ft. above Philadelphia & it is always more prevalent there —

- Sydenham very properly calls it *febris intermitta* —
- It affects Country people more than Citizens from the air being cooler & the diet of the former less cordial &c.
 - It has never been epidemic here
 - It alternates in successive years with the bil. & yellow fever —
 - It prevails at the same time and at the same place with bilious fever & alternates in the same person —
 - It appears with different symptoms & is cured with diff. remedies in diff. years —
 - It is more common among the Blacks than the Whites in the West Indies —
 - Lastly it spares no sex — or age — or rank of life
- There is a disease occurring near Quito in So. America, called *Mal delvico* — cured only by thrusting a whole or part of a lemon up the Anus —

The Cure —

The prognostic signs are Diarrhoea, Costiveness or small or mucous stools — transient pain in the lower bowels — sickness — give a gentle purge of Salts or Castor oil or Rhubarb —

It has when formed various grades, to which the remedies must be adapted accordingly —

1. The Malignant State — give Cordial Medicines — Vomits or purges are here useful — in Chester County it was cured by Burnt Brandy & Loaf Sugar — Bank & Land. also — Dr. Rush has never seen this form but has no doubt of its existence and of the exclusive benefit of the above remedies —

2^o The Inflammatory State ¹⁹⁰ — Remedies

- 1^o Bloodletting — The diseases of this City since 1792 have always required bloodletting —
2. Purges — there answer two purposes — 1^o to evacuate Bile & 2^o to remove the stimulus of the faces which is now great even when in their natural state — these should be Castor oil — Sweet oil — fresh melted butter — Neutral salts alone or with Cream of Tartar — Grapes — Sal Soda, Sulphur, salt in lime juice or vinegar — After these lenient purges have proved ineffectual and in order to remove obstructions in the upper or small bowels then use the active as Senna & Rhubarb and Calomel with Jalap — also aid both by laxative & demulcent Glysters — repeat them all every day or every other day while pain or morbid matter continues & do not desist till you see the green fecal matter swept away — they are best given in liquid form —
- 3^o Vomits — Bleeding sh^d precede them here — a solution of Tartar Emetic with Glaub. salts in divided doses is the best in this state — it loosens the Bile in the upper Intestines & acts on the whole system —
4. Sweating — Monro recommends this plan. it would not answer well in our Country as the frequent rising from bed would subject the taking of cold
- 5 Diluting & Demulcent drinks liberally, as Toast Water or Toast Tea, Balm, Peppermint or weak Cham. Tea — Weak broths —
- The Demulcent are Flaxseed, Mullen & Mallows Tea Gum Arabic — Arrow Root & theavings of Hattishone

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Dr. R.

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Dr. R. W.

Dr. R. W.

Dr. R. W.

Handwritten text in red ink, possibly a signature or date, located in the center of the page.

I die belonge in this world

boiled in Water with burnt bread or biscuit —

Rice water with a stick of Cinamon boiled in it —

R. Starch 3i } boiled in 3 pints of water down to
 Gum Arabic 3℥ } a quart & sweetened with loaf sugar —
 Cinamon 3ij } with these eat of demulcent Aliment

thus 1/3 of Mutton Lard, 3 Spoonful of Starch and 1
 pint of Milk — boil these, then add 1/2 ℥ of loaf sugar —

Flour tied up in a rag & boiled for 5 hours — then
 scraped or grated into water or milk & eaten with Sugar —
 Eggs — raw — Milk, D.R. knew 2 dysenteries twice cured thus.

Tallow & Starch boiled in water cured the Dys^{te} in Derry
 1/2 ℥ of Bees-wax with 1 pint of Milk & 2 tab. Mucos.
 of Starch boiled a few minutes — and to destroy
 morbid acid in the Stomach an astringent & anodyne

R. Chalk 1/2 to 1 ℥ } of this take 1 table spoonful
 Gum Arabic 2 ℥ } every hour or two sweetened
 Sal Soda - 1 ℥ } with loaf sugar shaking the
 Mint wat. 1 ℥ } vial at each dose
 Laudanum 60 to 100 drops
 Water — 6 ℥

• Polisters are highly useful after the reduction of the
 pulse — to the wrists partic^{ly} — they ease the pain — relax
 the skin and induce sleep — the skin & bowels are an
 antagonist muscles and there are on record 2 cases of
dysentery that were cured by scratching

• Laudanum also suff. the day in small doses & large at night
 • Frictions on the abdomen with the dry hand or turpentine
 or sweet oil —

(192.)

Typhoid Dysentery — Remedies gentle Purges — Vomits, Opials,
Blisters — Pot Wine — Aromatic Spirits Dr. Duer advises
still there is some degree of intoxication — also fermented
liquors in general & the smoking of tobacco —

• In Paroxysms of pain — or of lax or of pov. at fixed periods
Bark in the intervals — the Intermittent form often
appears in the last stage — bark is necessary here —

• In great weakness the patient should never get up to go
to stool, but should use a bed pan & — fainting & death
are thus prevented — a cold piroy sh^d also be avoided —

• For the tenesmus a rag wet with Laud. & water ore to the Anus

• Dysentery somet. terminates in Chronic Dys. I have
called it Dysentericula — Remedies are purges with
Rhubarb — Blisters, Opium — a belt round the abdomen
wax pills — riding on horseback, it stimulates the bowels —
a salivation — change of climate or situation —

• it also terminates in Chronic Diarrhoea — in Rheumatism —
in Dropsy — Palsy of limbs, locked jaw — Ophthalmia —
Typhilitis &c. &c. — remedy — salivation —

Favourable signs are 1. Green Dark col^d & fatid stools
never expect a recovery without them

2. Discharge of living worms

3. A salivation

Unfavourable — 1. Discharge of dead worms — suppression of urine
stools mixed with blood — the more blood the greater danger
it is most dangerous when it succeeds a Diarrhoea

• sunken countenance, lying on the back, hiccup — cadaverous
stools — a squeaking voice & sore throat from recover from — and
these last are more alarming in Children than in Adults —

- Dissections exhibit 1. No marks of disease of any kind the bowels having been diseased beyond the grade of inflammation. 2. Inflammation in the Colon & Rectum — 3. A membrane 4. Puscles on the large intestines — 5. Tubercles — 6. The muscular coat bare & contraction of the diameter of the bowels — 7. Gangrene — the diseased part break f. 9. Inflammation &c. of the Liver — 10 Spleen large

Is it contagious? It is from fecal matter of stools, perspiration &c only in protracted cases, but never spreads thus as an epidemic —
 . It is generally fatal when left to itself for Nature does nothing in it but mischiefs — but it almost always yields to proper treatment —

Cholera Morbus — This is a form of bilious fever
attended with discharges upwards & downwards or only the one
• tis both the preventive & cure of bilious fever —
• Crapula & Summer fevers often induce it —
• Remedies accommodated to the reigning epidemic or constitu-
tion of the air and time of year —
1. Constriction — Opium does harm here — but Laudanum
may be given by the mouth & glyster after Act. action is reduced.
• Cordial drinks — hot toddy — embrocations —
• a table spoonful of milk $\text{ev. } \frac{1}{2}$ hour has checked
vomiting when every thing else had failed —
• Peppermint tea is highly useful here — for the puking
or Laudanum — [see Thomas' Practice page 376 s]

Cholera Infantum — see Rush's Inquiries part 2^d
of Vol. 1 — page 215 — 4th Edition —

- Bilious Colic is known ^{n. 194} 1. by bil. fev. being present &
2. By being ushered in by a chilly fit
3. By occasional discharge of Bile up or down and
by the pulse
4. by spasm of the bowels — it is brot. on or are other
intestinal diseases and often prevails a whole country
remedies — are Venesection — Juges and somet. most libually
injections — warm bath — laud. Salivation — this often
unlocks the bowels as soon as the mouth is touched
Colonel in large doses — Balfour —
see 4th Vol. of Inquiries for the various forms of Acute
fever — there are 5 Anterior & 4 Intestinal.

6 Gastric State of fever — often induced by poisons
taken in and unwholesome drinks & aliments but often
from Miasmata —

7 The Enteric — induced by most of the above causes & by
contaminated — the pulse in both is small, tense, or typhoid
remedies — copious depletion & all the other remedies
to obtain a crismy.

Of the Lungs.

1. Pneumonia vera — in which I include Pleurisy and
peripneumony — Lewis tells that of 300 persons who
die of Pneumonia dissection shewed that when there was
inflamm. of the pleura there was always inflamm. of the lung,
Casalva and Morgagni confirm this. — This disease
I think trifling — it goes off without expectoration

195.

I have cured this generally in a few days by Stimulants
and bleeding occasionally or a blister to the part affected
Remedies for completely formed Pneumony is

1. Venesection - the most certain, safe & speedy mode
D.R. has here taken 100 Z in a few days
Bleeding is always safe when the pulse is tense & where
there is difficulty of breathing & pain before the 9th day -
- after, it relieves but does not always cure -
the first bleeding should be large - small ones do harm
- bleed always on the pained side & bleed largely
I think once took 130 Z -
- after C.F. leucant purges aided by opening injections
a purging should be avoided - in diseases of the breast
they are generally harmful
- a large blister on the 2^d or 3^d day to the side if there be
acute pain there - also bet. the shoulders - if this be
objected to use cups - they remove the disease from
the pleura & prevent it going to the lung
- diluting drinks after depleting remedies, given with
Smoka make root, promoting gentle sweats -
- also antimonial powders
- when the Cough comes on Demulcent drinks - also Barley &c
also land. - begin with small doses ^{at} the night & give it
in the liquorice juice in the day
- for the phlegm - Expectorants as Oxy-mel of Squill or Powder
of Squills with Calomel & if the mouth sh. become affected
the cure will be accelerated - if the phlegm be great
and alarming cupping on the shoulders & emetics, but these
will not be required where C.F. has been properly attended

to air times & quantities ^{190.} — The disease ends in death
by the blood vessels not being able to unload themselves. —
in the acute stage therefore the patient dies by suffocation
(Signs of vomica) — chills — partial sweats of the neck
breast — difficulty of breathing — dry cough — this cough is
somewhat constant — it generally breaks in 2 or 3 weeks & discharges
into the cavity of the thorax or trachea —
• matter also forms in the lungs without abscess — it is
warded here by the pleura — Accidents sometimes break these
vomicae — Dr. Rush has never given vomits to discharge
them — Hippocrates advising shaking by the shoulders —
• it often ends in hydrothorax —
• a Pneumony is very apt to recur — Dr. R. knew a man
who had it 24 times —
• signs of its issue pain in left side unfavorable —
• Delirium about the 5th day alarming — Diarrhoea unfavorable.
• more dangerous in pregnant women — in children & the aged
dissolved blood unfavorable — on the 5th day alarming —
• inability to lay on the sides alarming — when pain
attacks the arm or back after bleeding it is favorable
but not so when it shifts to other parts of the breast
• Discharge of frothy mucus with diff. of breathing — bad sign
on inspection the pained side has been found sound and
marks of disease only on the other side
see page 313, Aphorisms of Celsus —

Pneumonia not the - The Pulmonary & Bronchial vessels are here so engaged with blood as not to be able to put on inflammatory action -

. pulse is full or if full 'tis natural - there is no cough, but there is difficult respiration - acute pain in side and the patient remains in the same position as when taken. Dr. once saw a patient who remained on his sofa 30 hours - it is a violent & dangerous disease -

I have called it the "Aproplexy of the Lungs" - some people are subject to its often occurring -

- circumstances attending it deserving notice -

. it attacks weakly constitutions chiefly or the debilitated hard drinkers - hard labourers - Old people - West India Negroes - & those of the Southern States also debilitated by the autumnal diseases -

it occurs most frequently in Spring moist & open winters & from Gout Pul: Consumption Spell. Fev. at all seasons - remedies - prompt & copious venesection the loss of 100 $\frac{3}{4}$ of blood are somet. required to cure it - the pulse should not here govern the lancet - it often becomes by venesection cure from b.g. feeble or natural

. Where peculiar habits forbid venesection use Misters to the side - Volatile Salts - Ether & Laud - to the shoulders, arms & wrists at the same time & if it be alarming & great prostration cataplasms to the feet -

. the vapor of hot water & smoke of resin have done great good after V.S.

Pneumonia Biliosa Synocha or Bilious Pleurisy,
 comes on with sickness, Diarrhoea vomiting & with
pain in the side - a dark col^d tongue often attends -
 it occurs late in the Autumn & late in the Summer
 is common & fatal in countries where the plague is
 common - The liver & eye often affected -
 see Noah Webster's work

2 forms - 1. with Synochus fortis pulse - remedies very copious
venesection because morbid excitement occupies two
 systems instead of one - it checks also the vomiting
 . Purge with Calomel with laxative & emollient glysters
 some paroxysms often are present here with prostration -
 . vomits if there be nausea from bile -
 . blisters repeated daily - diluting & demulcent drinks
 opiate

The other form is with weak typhoid or typhus pulse
 accompanied with great languor, quick respiration -
 disposition to sweat - with a soak bubble pulse -
 . remedies 1 a gentle emetic. it discharges the bile & reduces the
 pulse for cordials -

2. a gentle purge or glysters & after we must place our
 dependence on Stimulants as Wine, Bark, Seneca root
 liquid Laud. &c - Blisters may be of use - venesection
 is harmful - Dr Rush saw it twice here as an
 epidemic - there are pains in the side also from
 worms & hysteria - also from cost and pleurisy - cured by
 soap liniment - Blisters, cupping - friction &c
 B. J. is seldom necessary

Cataract commonly called "a Cold" ^{199.} — & The Influenza
A Cataract should demand serious attention —
the merely leaving off a ribbon or shoes of. Down at heel
have given rise to it —
The Influenza is the effect of a morbid state of the Atmos.
it affects brutes also — Savages & the inhabitants of
Northern Countries — 'tis an ancient disease —
it prevailed all over Europe in 1802 — 'tis often the
precursor of a malignant fever — & of its departure —
also of pneumonia — it somet. revives the ague —
it is confined to no one season D.R. has seen it in all
remedies for the forming state — Febrilem — abstinence of
animal food & diluting drinks — bodily exertion often des-
troys it — from 25 to 30 drops of Laud. at bed time
has cured it in one night — sneezing somet. attends
'tis obviated by pressing the inner canthi of the eye,
after formed, bleeding if pulse demands — & somet. it does
even tho' the pulse be soft —
after Emetics — Purgers, Blisters, Diluting Drinks
if the fever of the Typhus kind — then treat it accord-
g for Pulmonary Consumption see his Enquiries

Page 38 — & 49 — of Vol 2 — (6th in vol 1st)
Here follow some partic^l. recipes — 1 Griffiths Myrrh mixture
Myrrh — 3ij
Salt of Tart. — 3ij
Spinks — 3vi
intimately rubbed together
then Mint Wat 3vi
Sal Martis x grs.
Syrup — 3ij
Take 1/4th this 3t. a day — D Griffiths recom-
mends it strongly — D. Morley speaks in
high terms of a Sol. of Alum & White Vitriol
3 Eggs in 1 pint of Brandy till the shells
are dissolved — beaten up with loaf sugar
in a wine glass full 3t. a day — it
is a powerful cordial —

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Gentle & Tan - 3 Cloves Bruise taken Early or in infus.
10 or 12 cloves in 1 pint of peppermint tea - 1 wine glass
3 T. a day -

Tan in pills 10 grs. 3 T. a day - or tinct - or tan water
Animal diet cooked in the most savoury way
Drinks on Wine - Grog - Milk Punch, Porter & according
to the habits & inclination - Mercury to gently touch
the month - Give not these medicines prematurely
& never before the pulse is reduced to the Typhus state -

Rape Grapes, the juice of the Sugar Maple & sweet apples
have cured it. - Bread & Butter cov. with loaf sugar
cured 2 cases - the patients here became fat - also
Drink large quantities of Molasses - There were
2 cases of broken wind in horses, cured by feeding in
an Orchard on Apples - They grew very fat - was it
the fat cured it or was it cured by the new disease -
- a Perpetual Blister D.R. proves to all of this nature
how would blisters to the joints answer - ? Abscess in
the Arm pits have cured Pul: Cons -

avoid venery & never let a patient travel with his wife
there is great sympathy bet. the sexual organs & the lungs -
in Brute Animals also -

- favourable signs - Spitting blood before a Cough appears
Rheumatic pains after a cough & relieving it - Eruptions
& Abscess in every part of the body if the strength not exhausted
even the presence of pus is no proof of unfavorable termination -
Keep w. eye steadily on the remote & sympathetic causes & never
lose sight of the variable state of the system in every stage of it
& change your remedies with its varying state -

A Cough.

It is both Pulmonary & Tracheal - generally sonorous - it is never a safe disease - we must adapt the remedies according to the state of the system

1. If the pulse demand - bleeding repeat it if the blood be sizey &c. with it abstemious diet, demulcent drinks also gentle exercise -

2. In a natural state of the pulse - washing the feet in warm wat. ev. morning - silence for 5 or 6 hours - a Bingendy Pitch plaster - a ride - a walk -

• Syrup of Barb. Paddish (see Cullen) -

• The Brown Mixture is any good -

In a feble state of the lungs - Tan wat. & Pies - $\frac{1}{2}$ pill to 1 pill - and 1 to 3 ten pills 3 t. a day -

• 10 to 20 drops of oil of Amber 3 t. a day -

• Clove of Garlic 3 t. a day. A Tea sp. full of Tinct. of Anafatida 3 t. a day - also 1 tea spoon of plow of mustard 3 t. a day in a tab. sp. of molasses -

• a tea spoonful of powd. of Rosin 3 t. a day -

• Syrup from Garlic - Sulphur, honey & oil eq. parts -

• Molasses & brandy eq. parts or 2 pts. of molasses -

for paroxysms - preping the back against a cold wall

• small freq. dfts. of cold water - peppermint lozunge -

• liquorice ball - 10 to 15 drops. of land - also avoid particularly cold feet

Eruptive States of fever —

The Small Pox — is Malignant or Lympha — most com —
 — mainly the latter — . During the eruptive fever — use
 copious venesections — when this is foetid vomits or strong
 purges — cool or cold air accordg to state of skin —
 Mercury so as to salivate — venesection about the
turn of the pock & the height of the disease —

• bowels gently opened — & the swellings invited to the hands
 & feet where it falls on the face — when the pock is
 bad it should be opened with a needle — the warm
 bath when the pock do not fall off easily —

Linum often changed — ^{in the vaccine where good matter fails suspect}
^{some latent disease}
 Measles* — D.R. had 1 case of eruption 14 days after the fever.
 came on — 2 Children had eruptions like the Small Pox,
 before they had the Measles — — — — Venesection — liniment
 purges — demulcent Drinks & opiates at night — Blisters —
 Astringents where Diarrhoea — see Inquiries Vol. 2 p. 255 —
 • vegetable diet also of advantage — There is a Union Measles
 Small Pox & Measles may occur at the same time —
 • Erisipelatous state

• copious if pulse den and — purges — Mist. to parts — effectuate
 to prevent gangrene — if gangrene has begun Bark & Wine liberally
 • cool air — flour sprinkled over the parts — all oily or
ratumnie remedies to be avoided

• Miliary fever — from hot regimen, a sympt. of malig. fever —
 Chicken pox — little or no fever — also few eruptions —
 watery vesicles & more on the back — cure a purge —

* see Rush's Inquiries part 2 of vol 1 — page 256 for
 an account of the Measles of 1789 —

Anginose States of Fever 202.

1. Cynanche Maligna — a very fatal disease — it was epidemic in 1763 in this City — it oftener attacks Girls & women — the pulse is generally Typhus but it has all the variety of pulse — see Fothergill, Johnson & Cullen — they thot. it contagious — the breath may convey it the throat is much ulcerated — also by its stimulus awakening latent miasmata —

• Prematory symptoms are languor, watery eyes & stiff neck, fatid taste & small & the usual symp. of fever. Dr Redman here used the Turbith Min (Sub. Sulp. of Merc.) in doses of 1 to 3 grs. with the happiest effects — after the disease is formed the remedies should be

1. Bleeding, ~~repeated frequently~~ if there be a synocha pulse or a Synochus fortis — be not deterred from this by what English Physicians have said, recollect the Diff. of

2. Emetics when pulse foetid bleeding — repeated frequently the Sulphate of Mercury is inferable —

3. Gentle Purges — the bowels are mostly irritable here

4. Bark, Wine & Laud. liberally as soon as the pulse is reduced by the above remedies to the Typhus Stage —

5. Cayenne Pepper has been given with success when the Patient has rejected Bark & even when the pulse foetid Bark —

℞ — Cayenne Pepper 3 tab. ℥. full } when cold, add 1/2 pint of
Common Salt — 2 " } vinegar & give a tab. ℥. f.
Boiling Water 1/2 a pint } every hour. —

Darke combined it with Laudanum to prevent its passing off by the bowels —

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6. Fumigations of Chym. boiled in vinegar - applied to the throat by means of a funnel
 7. Gargles of Sage tea acidulated with Muratic acid

The greater the external swellings about the throat the less danger - sweating is also favourable -

The hair snails somet. comes off after recovery. & deafness somet. follows - it may be prevented by gent. purg. Merc.

see Rush's Inquiries
vol 2. page 243

Scarlaticina. Anginosa

Breaking of bile - a shining efflorescence on the skin and redness in the throat, tho' somet. this without disease in the throat - the heat somet. rises to 112 -
it sometimes rises in 6 hours

Dr. Rush has seen it with a yellow skin in two cases

It exists from a flea bite to a plague says Dr. Hufeland

It may be taken more than once - is an Atmospheric disease - it terminates often in Amputation

of the lower extremities & it somet. induces Phrenitis &c. -
remedies much as the preceding - Emetic before formed to prevent

when formed Bloodletting if pulse full & tense - Ind by Dr. Rush
Emetics Sulph. Zinci - repeated 2 or 3 times

Proper Linctus - Ablution of the skin with cold water -
the redness of the skin is increased

Blisters to the lower extrem. when the dis. attacks the head & breast

Medicines to promote perspiration

Mercury so as to act on the throat -

Fumig. of angles, Bank, Wine, came when typhus pulse
favourable signs - a deep & general red colour of the
 skin - none died with this -

- Swelling of the lower limbs
 - emph. great restlessness or jactation of body -
 - feet obstinately cold
 - Abscess in the neck - lost 2 patients with this
 - Yellow Col. of skin always fatal
 - Insensibility of Stomach, emetics will not operate
- see Dr. Withering & Cullen.

Angina (Suffocativa of D. Bard)
 Called Orille by D. Tissot - its seat is in the Trachea
 & Bronchia chiefly with ulcers - swelling & ulcers
 behind the ear - D.R. ~~saw~~ once saw it endemic here
 a spontaneous salivation is always salutary -
 remedies in the forming stages - Emetic & genl. sweats -
 when formed Bleeding, Emetics, Mistura behind the ear, Merc.
 Fumigation of angles - ^{are of use here, ulcers b. below their action} D.B. and recommends Bank but D.R.
 did not prescribe it - if the nose be stopped up, excite
 sneezing - The prevention the same as the two former
 they are modifications of one & the same disease - so
 that Dr. Stoll, Hebburn &
 they are different effects of one cause & that cause
 always of an Atmospheric nature -

Cynanche Trachealis -

This is a higher grade of Influenza - 'Tis most dangerous when the effect of a translated disease - it is somewhat a filial disease - the mind is frequently elevated in it says D. Michaelis -

a Diarrhoea is generally a fatal sign in it

D. Darwin calls it a "Pleurisy of the Trachea"

D. Frank calls it Trachitis - There are two cases of Dogs having died with it

Uremies - When 'tis forming give an emetic -

when formed - Bloodletting prompt & copious (even ad deliquium^{s.})

D. Physick once bled a child 3 mon. old 3 times in one day with the happiest effects -

2. Emetics - the prompt & active - There is great sympathy bet. the Stomach & Trachea - The Squills & Tart. Emetic are preferred -

Children bear emetics better than grown people -

if these will not answer use a finger or feather to excite vomiting - let the emetic be repeated daily

Purgings with Calomel & Jalap - also large doses of Cal. alone no age is too young or too feeble to forbid this medicine -

D. Bow introduced Mercurius in this disease

• Blisters to the throat - also floss of mustard as a revulsive

• Stimulating Cataplasms to the feet - pediluvium - vapour of Capsicum hot water - boiling water to the feet -

liquid land where spasmodic aided by previous bleeding
 Spirits of Hartshorn & Mustard to the feet - Archer of Maryland introduced here the Seneca Snake root - a strong decoction
 purges in this & a weaker one does good by exciting perspiration -

Tracheotomy in the inflam^y. form may do good by de-
-pleting & by exciting external disease — I believe it
never does good after the membrane is formed —

There is most danger when the patient has constantly
an audible and stertorous breathing — the danger
is nearly over when the Cough becomes loose —

• An eruption of little red blotches appearing & disappearing
is always favourable (whence the name of herpes) —

this is only fatal when it succeeds other diseases when it
it is chronic — see part 2 of Vol 1. page 225 Rush's Inquiries

The Mumps — Cynanche Parotidea —

Guides to low diet & gentle purges — it sometimes affects the
testes — also the Breasts in Women & is somet. translated
to the Brain — a Blister to ~~the~~ ^{them} prevents its translation
to the Brain & a Blister to the throat when there is swelling
there prevents its translation to the Testes —

Cynanche Pharyngea

“ Tonsillaris — This prevails among hoars is
called the strangles — V.S. is always hurtful says Mr. White
it cures itself among them by suppuration —
cure, gentle purges low diet — puncture by lancet —
it is apt to recur —

Avoid Cold feet, overaction — full Diet — Wool in the ear it is
said prevents it — Dr. had 1 case
it is said to be connected with Liver complaints —

here follows Angina Pectoris, tho' out of the order of Dr. Rush's

207. Angina Pectoris.

Did not die of this disease - D. R. thinks Men are more subject to it than Women - he has seen but 2 cases of women & Hebbel on out of 100 saw but 3 women. The disease in its chronic state D. R. thinks arises from the Debility of the Heart -

remedies - 1. Bleeding if pulse tense - Cup to spine? Gentle purges - low diet - Tonic remedies, metallic chiefly as Zinc & Nitrate of Silver -

• Cordial diet - Exercise but none on foot

• A perpetual Blister - A salivation - D. R. saw it by this last suspended completely in one case -

Dyspnoea - or Diff. of breathing

Causes. 1. Malconformation of the breast -

2. A contracted Chest - 3. Tumours in the Trachea -

4. Enlargement of the Liver - 5. Excess of fat -

When from the 3 first causes it is generally incurable when arising from fat a temperate diet -

Asthma. 208.

Pulse is somet. natural but genly locked intermitting -
There is no disease which so exactly resembles the paroxysm,
of death as a paroxysm of Asthma - to this we sh^d. attend -
it genly. attacks in the night & in a recumbent posture -
causes are Direct, indirect or sympathetic

the 1st are Mal conformation of the Thorax

2. The visible qualities of the air - the worst cases D.R.
ever saw arose from the uniform heat of Summer -
a dense air induces it in some - a rare in others -
also a very Dry - and a very moist

3. Invisible qualities of the air

4. Act. disease translated to the lungs

Indirect are 1. Certain odours

2. Pregnancy - 3. Suppres. of usual Disch. from Uterus &c.

4. The climbing - or running hantley

5. Anger -

Sympathetic

1. Indigestible Aliments - 2. Worms -

3. Obstruction of Liver & Spleen & Gall stones

4. A Stone in the Kidney, &c. -

Unindies into 3 heads - 1. The forming state - The pedileu.

land: Hpts. Hants have - Emetics, Sitting up all night
when it comes on them - 2. In the paroxysm 1. bleeding

but we must not be guided here by the pulse as they do
not sympathize - it shortens the duration - lessens its
violence & prevents its quick recurrence -

Emetics - Sulp. of Zinc &c.

Purges of the lenient kind

Cold or warm air will relieve it

Land. in small repeated doses with a little Tinct. of Anafalor

Pediluv. - Vapor of W. water -

Blisters to the wrists

Acid. vegetable & min

Strong Coffee $1\frac{2}{3}$ of Coffee to $4\frac{2}{3}$ of water

Smoking Tobacco -

Change of Situation -

In the interval change the climate &c. - see p. 217, ^{to 222 -} Hooper -

To prevent a recurrence - 1 small & repeated bleedings - these
sh. be regulated by the habits of the patient - Season of Year -
diseases of the Year &c

An abstemious or cordial Diet accordg to State of the system

A perfect blist. to one of the legs or a titon in the arm -

Douglas powders - inhaling Vapor of Ether - Oxygen gas -

Bark when occurr. regularly - &c

hard labour Exercise of the Arms

Sleeping on a Mattress - it has terminated in Aneurism

Pertussis - see Cullen

I think once saw the Cough without the Hooping -

It generally comes on with Catarrhs

" " " other epidemics

" " " Costiveness -

it spread by Contagion -

remedies. Bleeding - perhaps also Cups to the Spine,

Emetics repeated often - Squills, Tart. Emetic &c.

Purges - Rhub. & Calomel

Exercise - Fear -

When of the chronic form Tonics as Bark, Steel, Arecata, oil of Amber, Garlic - Zinc, Sac. Lat. & Cold Bath -

Laudanum in small repeated doses

Blisters to the breast & to the stomach - tinct. of Cam. Stom. to feet

Spirit in which garlic is infused to the spine - gent. exercise

on horseback - change of Air - Issues - Eruptions -

Dr. Archer says it is prevented by vaccination -

Rheumatism.

Affects not man chiefly — also those neglecting labour,
also labourers — all ages — & cert. dumb animals —
• The founder in Horses is nothing but this —

Rheumatism is external Gout while Gout is
both internal and external Rheumatism —

• They are different grades of the same disease —

• Its forms are 1. That accompanied with Synocha fever
and great pain in all the joints of the limbs —

2. That — fixed to some part of the body as to the back
constituting Lumbago, — the hip — const. Sciatica &c

3. Sometimes are swelling of the lower limbs only
without pain — known by following Rheumatism
with full pulse and not preceded by any symptom of Dropsy.
This may be called dumb Rheumatism —

5. A general weakness of the muscles & effusion without
pain — this is also a dumb form —

6. Sometimes with eruptions of the skin — we occasionally
see it in Drunk Drinkers — it is called in England
Scabritic Rheumatism —

• Lumbos & Psoas abscesses are Rheumatism of the muscles
there — sometimes Rheumatism is translated to the Lungs
amounting then to Pulmonary Consumption —

Rheumatismus, Rheumaticus } Rheum atalgia
 Under the two heads are embraced } This is without fever
 its acute & chronic ^{or protracted} inflammatory state } & with but little pain
 much mischief has been done by di- } that chiefly at night.
 -viding these states & prescribing ac-
 -cording to their names of acute & chronic

The prognostic signs are much the same as other fevers
 when formed - 1. Bleeding - general & also local -

2. Purgers by reducing the system - but they act more feebly
 than in visceral diseases - Purgers - large doses
 of Calomel at night & active purges next day

3. Vegetable Diet - small quantity of little nutriment

4. Antimonial Powder in large & frequent doses -

5 - decoction of Seneka - Sweating remedies esp. Lint.
 copious effusion - Dover's powder excellent 10 to 20 grs.
 every night - depletion sh precede sweating but the pulse
 need not be wholly reduced

7. Local remedies - as Blisters to the joints when the seat
 of the disease is there - 2 Cool air & cold water -
 Cabbage leaves to the joints - 4 Molasses - 5 Mercurial
 ointment 6. a Liniment of Camphor, sweet oil &
 Sassafras has been useful

Violent frictions — Mechanical pressure —
 if all these fail then a Salivation —
 Opiates after depletion to ease pain is a necessary
 cure in this disease —

A small quantity of Opium with Cal - 2 or 3 gr. a day
 was a few. remedy of Hamilton —

Scotts Paris -

Royal Library - Library of
Henry IV to Gabrielle

Bunny in Music
Baylive -

oblongo

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The foetus is also produced particularly where there is
moisture (is it ever so where there is none? —

burnt sponge cures both — (Pursue this subject)
A woman in Cherry Alley has a human Gen-
-derangement swelling of her throat (it came immediately
after parturition — it has ever since nearly destroyed
her voice except the odour is very strong she can
smell nothing!)

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Remedies for its several forms

1. swelling in the lower limbs without pain — bleeding
springs sh^d. begin the cure — the pains now get worse
— repeat them & cure the disease
2. in spasms of the muscles — the same
3. Where the muscles are affected with immobility
remedies are Bark, Blisters, Cordial diet & drinks but
if the pulse be time or full, bleeding springs —
4. The Scorbutic — treated as Inflamm^y. accord^y to the Pulse
& with Stimulants — if necessary —
new remedies are 1st. Bark introduced by Dr. Hays with
+ Fothergill — it is a useful tonic after the complete
reduction of the pulse — it hastens convalescence
+ prevents relapses —
Tinct. of Digitalis — Dr. R. has no experience in it

Rheumatelgia

The pulse typhoid or typhus — 'tis generally the effect
of half cured or neglected Rheumatism or — Hicula —
'tis seldom attended with fever — constant pains
+ increased by cold not so in the 2 other —
Remedies — Vol: tinct. of Guaiacum 1℥ to 3℥ 3℥ a Day
tinct. of Poke berries ^{in similar doses} Bark with Iron or without it
Iron with ginger &c — Vol: Salts — Arsenic — Soap 3℥
to 5℥ daily — decoction of Sassafras root — Spts. Turpentine
Sulphur daily for months — all these must be used
in succession & rotation — Salivation where it can
be effected — to these join cordial Diet & Drinks —

- if all these fail — prescribe a milk diet alone
 Dr. Rush thus cured a Patient whose disease had
 resisted every thing for 7 years — had taken Lea-
 voyager's Decided in May 2 years —
 — from 3 pints to 2 quarts daily —
external — 1. The warm & vapour bath, heat 100°.
 The air or sand bath perhaps more effectual —
 After the system is excited a little by the warm or the
 vapour bath the cold bath may be used with good effect.
 Dr. Rush has used them thus with success in the Hospital —
 2. Frictions with the dry hand & the flesh brush also
 with the Volatile liniment, Spts. of Turpentine Ether
 infusion of Cayenne Pepper $1\frac{1}{2}$ in a pint of Spirits
 The same of Flom of mustard $1\frac{1}{2}$ in a pint of Vinegar
 Plaster of Mustard & Vinegar — also Mustard & Lead $2\frac{1}{2}$ pts.
 Tar, Wax — & Garlic equal parts —
 Cotton to the parts acts by
 • Mixed Sulphur ground in a bag — to the part
 where the joints are enlarged — a Cataplasm of
 2 parts of quick lime & 1 part of Oatmeal mixed by
 Hog's Lard, renewed twice a day —
 • Blisters are too feeble here for any impression &
 they do harm by depletion —
 • Electricity for months —
 • Exercise for a long time, partic^{ly}. walking —
 • Terror has somet. cured this dis-
 • Chalybeate & other stimulant mineral waters are useful
 • Change of climate from cold to warm — this has often

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radicated the most obstinate forms, when every
thing else failed —

• all the forms of Rheumatism are to be prevented
by clothing in flannel — keeping the feet & hands
warm — by avoiding vicissitudes of weather —
sea air & bleak situations — low wines &c
Dr. R. once saw it hot. on by eating a sour apple —

Tic²¹⁸ Dolorous

It is united in the new system — There is no motion or redness of the part —

• It affects gouty habits & gouty, Paris have relieved it —
remedies — — — — — here Gentlemen let Medicine

put on Sackcloth — for after years of study no
certain cure has been found out for it —

• it has been however cured by Art & somewhat by Nature —
Opium, Hemlock, Belladonna & Stramonium
have afforded relief —

• it has been cured by cutting or destroying the Nerve
leading to the diseased part —

• a German Physician once knew it cured by a
Magnet — probably this cure was by faith —

• Another Physician has cured it by gentle purges
blisters, Pediluvium — low Diet — Nitre & Opium —

• Dr — saw it suspended for Weeks by grief

Dr. Capp knew 1 case where it was suspended
by playing Whist — — — — — of the mind in these two —

Dr — 1 case suspended by a spontaneous Abscess
on the shoulder

Dr — by a wound on the head — it returned when
the wound healed & vice versa — — — — —

— it wears away by time — The more subtle
the remedies have been, the more relief they have given

• by counter irritations & discharges excited elsewhere
Artificial drains — let us subdue by stratagem or
negotiation when we cannot take by storm —

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The great secret in curing it will be to seduce
it from the nerves and place it in some other
parts if it cannot be forced out of the system.
Dr. Rush saw it once enter the brain & produce Apoplexy
Blisters - toasting the feet - roasted onions & garlic ?
They may be useful from analogy —

Cephalic Inflammation

1. Phrenitis — its causes act primarily & directly on the brain — it is induced by 1. Contusions — by concussion — by insolation —
- 2^d. by causes acting primarily on other parts of the body & by sympathy on the brain — as worms & great pain in parts sympathising with the brain — this most dangerous when from the Pneumony & Colic
3. by repelled cutaneous eruptions
see Cullen's first lines

A synocha pulse genly. attends it — somet. a typhoid or typhus & somet. a perfectly natural — here perhaps there is congestion

- intolerance of light & sound & alienation of mind —
- it usually terminates in 3, 5, or 7 days & when it goes beyond the 7th day somet. terminates in Mania — i. e., Chronic Phrenitis — it is distinguished from Madness thus,
- in delirium the perceptions are uniformly erroneous
- in madness — perceptions are rarely erroneous, when so, it is highly dangerous —
- in delirium there is incoherent conversation
- in madness there is both incoherent actions & conversation
- in delirium, there is fever in the system
- in madness the fever is suffocated in the brain
- in delirium the excitement of the muscles is translated to the bloodvessels but in madness the reverse
- in delirium when the fever abates, there is often a lucid

interval but seldom in Mania is there perfect sanity on all subjects -

delirious patients seldom remember - Mad patients do
there is headache in the intervals of delirium -
seldom in Mania - there is also a want of
consciousness in delirium - & the fever often intermits
daily - not so in Mania -

They are not specifically different but differ
only in their grades - Madness is chronic Phrenitis -
- Proximate signs are - great wakefulness - headache
red or watery eyes & absence of mind - here the re-
-media will be rest - a purge - or loss of a little blood
after the disease is formed - Bleeding from the arm &
when practicable from the temporal Artery - when from
contusions bleed profusely -

keep the head as much elevated as possible - apply
also cups or leeches - let the hair be cut off &
cold air - cold water or Ice be constantly applied
also cold & hot water creating an eruption - Dr -

gentle purges 3 or 4 times a day & glysters

light diet, simple as possible - abstraction of
light and sound & paucity of conversation

prevent sleep by small frequent doses of Laud. never give
it to induce sleep -

Blisters to the ankles & wrists after depletion - Blisters
to the head before depletion do either no good or they do
harm - the excessive morbid action in the brain should be
reduced first or loosened before we attempt to translate it to
other parts -

when in the Chronic form a salivation should
never be neglected — and invite suppressed evac.
temptations —

- of Typhoid or typhus — Stimulants
- remove all the remote exciting causes —

Maniacal state of fever — fever in which a
temporary Mania is evident — it is now then a symptom
of fever & runs with its paroxysms —

remedies as to the different states of fever & due regard
sh. be had to the state of the mind — in high toned
madness the will sh. not be resisted or improperly opposed —

- Lethargic state — Coma, Coma & Somnolency — they
are diff. grades of the same disease —

remedies according to the pulse, but when we have reason
to believe it is a violent fever in a suffocated state —

copious depletion — by Venesection of the arm & after
cupps to the head — Punges — cold to the head if hot
blisters to the arms, wrists & head

- of Typhus comatose state, then remedies accordg
laudannum — strong Coffee by mouth & injection D. Willis
• a coma is never without danger except occurring at
the crisis of fever

• Apoplectic state a higher grade than the Lethargic —
it is never an epidemic fever but merely a symptom
& the effect of an impure & miasmatic atmosphere
remedies when the system reacts copious venesection

& after from the head — 2. Punges — Cal. & Jalap —
Emetics if the Stomach is affected — Blisters to head
Cataplasms to the feet — a salivation —

where there is no reaction ²²³ give exclusively Stimulants
 when an intermission - 'Bank -
 when Typhus Stimulants -
 Paralytic state - This is less common - D.R. once
 drew 100 $\frac{3}{4}$ of blood & afterwards had to salivate before
 curing it -

Dropsy of the Brain -

see Fothergill, Whitt & Lum for the symptoms - the
 best in D.Rush's Inquiries part 2 of Vol. 1. page 127 - & also
 for his theory & treatment -

This disease is the effect of morbid excitement in the
 Brain - the water in the brain is an effect only of the
artificial action -

it is somet. a filial disease Mr - had 4 of his Child.
 Mr Bowers 9 of his - Portal also mentions it as a
 filial disease - Children with premature intellect
 are predisposed to phrenitic disease & this is so nearly
 allied to the cephalic predisposition, that exciting causes
 will induce it in both -

in its forming state - a purge or two or the loss of a few
 ounces of Blood may prevent its formation but in its
 active state - copious & frequent venesection. D.R. first prac-
 tised thus in 1790 from his peculiar views - Nature
 can do nothing here to relieve it - there is no
 back door for the fluids of the Brain - D.R. has
 cured by V.s. - after water existed & after Stomach
 Active Purges - or Cal ray 1 large dose it may dislodge
 worms - then give Rhubarb & Jalap & Linna -
 Mercury rarely affects the brain in Children - D.Rush

know I cure of Matification & death by it -

I charge you as you value your lives & reputation
never attempt to salivate a child for this com-
-plaint under 8 or 10 years of age . — . — .

D.R. has cured 4 cases out of 5 occurring by his pec-
-mode of practice — in 1813 he had 6 cases that were
severe ones, they all recovered —

D.R. has observed a symptom of stiffness of the
muscles of the arm to be generally a fatal one —
- a case is recorded of a woman in France who
after having been in labour 7 days gave birth to an
infant with Hydrocephalus internus — S —

Hydropic states of Fever - The Arterial system is the seat of Dropsies in 19 cases out of 20 -

Increased action in the exhalents & diminished action in the absorbents has Dropsy as its consequence -

Without fever or morbid action in the blood vessels I maintain no general dropsy can take place -

see page 104 of Rush's Inquiries part 2^d of Vol. 1 - to page 123 - for theory & cure of Dropsies -

In Hydrothorax the pulse can seldom be subdued by bloodletting - 'De Haen has found it hard when

there was hardly any blood in the body -

The blood is always stagnant - or much only sh^d. be drawn on to prepare the system for other de-pleting remedies - Cups on the chest if a suffo-

cating sensation - Diuretics - Squills - they lay bitter on the stomach when combined with stimulating aromatics as Peppermint, Cinamon or Ginger -

Digitalis next & then the rest - D.R. has seen the Dig. act like a charm but never knew it cure this dis-

Dr. Mc. Swanie once cured it by a purg. blister to the side. Onion Diet recommended by Langston -

If all the above fail it was cured once by return of Stch - Then a salivation purges aft. the reduc. of the pulse are safe & useful -

Unfavorable symptoms are - The spitting of blood, this is always a bad sign - copious discharge of unnatural urine - & more unfav. if pale

Anasarca - remedies as for general dropsy vary-
 -ing according to the changes of the system -
 • a recumbent posture for weeks -
 • friction upwards in the morning only
 • bathing feet & legs in strong brine
 • blisters to upper part of leg or the middle -
 • Lucien says Sweats of the feet have spontaneously cured it
 • Small punctures in the feet, legs & ankles thru' the skin
 only - scarifications are unsafe - will be never used here.
 • tight rollers after the reduction of swelled feet & legs
 Historical Women often have swellings of the extremities
 but more of the upper - (from a stagnation of halitus
 perhaps) - on of the arms - face &c - & fugitive
Ascites - a tight bandage constantly round the belly
 caustic opposite to the liver also punctures to feet & legs
tapping is unsafe after the pulse is below the navel
of healthy cuticle for life is often protracted here
 by the stimulus of distention & ceases with its removal -
 it is often a local disease with almost all the actions
 of a healthy nature - it is in the lower part of the belly
The tapping point - this must be observed -
draw off but little at a time - Yellow water shews
 the liver affected is an unsafe sign - clear & bloody water
 The following symptoms succeeding tapping are also unsafe.
 restlessness, chilliness, jaundice, Diarrhoea, pain in bowels
 the wound not healing by the first intention - Delirium
 or mania - D.R. never saw a recovery after any one of them
 D.R. recollects 8 cures by this method

I was his own —
 tapping serves the following purposes:
 . it alleviates pain . it protracts life — Dr. —
 has injected Omecon, Spiritus Mindereri &c with success
 recollect not to tap if the system is below the
 tapping ^{point} — that is — when the pulse is below the point
 of healthy action & the vital functions greatly imp —

Of the Ovaria — it seldom yields to medicine —
 Case of a woman tapped 80 times & lost 13 lbs. of water

Scrotum — punctures & 2 or 3 active purges —

Hæmorrhagic state

with chills, heat, quick and frequent pulse —

The only passive hæmorrhagy I admit says D.R. is that proceeding from trifling wounds without fever and arises from an original & congenial defect in the bloodvessels — a want of excitability or irritability of the arteries —

D.R. denies the existence of passive hæmorrhagy but divides them into those of strong & of weak action unmolested exciting causes. 1. General as great heat & cold 2 vicissitudes of weather — change of air & any thing increasing the force of the bloodvessels 2. Partial

They are said to be somewhat epidemic but they are only a symptom & Nature is here pointing to us the road to health — use the lancet or astringents it is unsafe for a while to check it in Mania Palsy, Apoplexy — Hemorrhoid &c. until the predisposition to these diseases be removed —

There is great sympathy of the rectum with the rest of the body & even with the skin — never check an epistaxis when there exists a cephalic determination —

Gen: remedies — when from great morbid excitement & venæction, cold air — cold water — ice — rest — venient purges — Nitre — & common salt, Astringents — Alum — Tincture of Lead — Oak galls — Ligatures — Blisters — Low vegetable diet —

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with weak morbid action -
remedies Opium Bark Stue, Nitric Acid, Copper,
Cordial dist Elixir Bitriol, gentle exercise -
look to the Spleen

Hippocrates in his Acc. of Epidemical diseases says
"Alcippus who was subject to the piles was forbidden to
be cured and upon being cured went mad -
an acute fever coming on, carried the other off."

Epistaxis.

This is somet. a symptom of fever - D. Rush had 1 case
with a tense pulse which continued so 'til the last hour
of life - . remedies - 1. If the pulse be tense venesection
rest, half recumbent posture - Cold applied to the neck -
cold water to the scrotum - this entirely checked it - also
to the arm pits - dipping the head in cold water -
lenient purges - low diet - plugs to the nose -
avoid gen. & specific causes & particularly tight
ligatures round the neck,
- a case is recalled of Intermittent fever when the patient
lost from the nose $3\frac{1}{2}$ lbs. of blood in 3 days, from
which time he recov. rapidly - S.

Hæmoptysis

• $\frac{3}{4}$ th of all cases of this occur in the night, owing to debility being then greater — but those who employ their lungs in an equable manner seldom are affected by it — As Public Criers, Watchmen, Lawyers, Singers &c. — Quakers are more subject to it. Taylors & Shoemakers are often the subjects of it. Cause — a high & light air — a hot night, singing, laughing, Anger.

There is present — redness of cheek, pain in the breast tickling of the fauces.

In those who have the premoritory signs of the Pul. Consumption, an hæmoptysis often cures it and the more copious the hæmorrhage, the more certain the cure —

• In many it is a local disease — seldom fatal & often innocuous — Frederic of Prussia was subject to it during the whole of his last "7 years war"

• A Cough without fever is often for years even for a whole life equally harmless —

• Hæmoptysis is less dangerous in old age than in youth and middle age — venous having taken place of the arterial plethora —

- When in gouty habits, it is seldom attended with danger -
- in Chronic hemoptysis the lungs have been found filled with little polypii
- that hemop. which Cullen calls vicarious is seldom fatal -
- that which follows Consumption is generally so

Remedies - ¹¹1. Venesection according to the state of the pulse and the system - Dr. Hanthorpe Smith of Princeton once lost 200 $\frac{3}{4}$ in a few days before he stop his hemorrhagy -

• somet. the lungs here are engorged with blood - - the pulse is languid - this state calls loudly for venesection

2. Common salt swallow'd as much as the patient can bear by tea or table spoonful - it contracts the bleeding vessel. - This is a temporary remedy for the hemorrhagy & only to be used during its continuance if salt is offensive - take equal pts. of lime water & vinegar

3. Cold as water to am pite the whole body -

4. Vegetable acid - 5. Alum - 6. Opium - Sygar of Lead

• Blisters to the wrists - then to the neck or breast -

• Rush, gentle purges, Avoid conversation - coughing - large qts. of water at a time &

Remedies for W. of feeble morbid action

- 1. Salt — large Opium — or Henbane (does not create costiveness)
- British Oil — Oil of Amber 5 to 10 drops 3 T. a day
- Blisters to neck Cordial diet & drinks —
- Emetics by Dr. Baile Robinson — if all the above fail try them at least as nauseatives
- Salivation Dr. Rush has used it.
- of Dr. —'s Consumptive Patients 38 had Obst. Splenens to prevent a return all its exciting causes should be avoided — use gentle exercise
- Dr. Rush has known two cases cured enty. by cordial diet
- Dr. Smith attributes his cure to Porter — so does Capt. Linn
- Small & frequent O.P. — Bank by Sir Hans Sloane
- Dr. Bond lost blood every 2, 3 or 5 weeks during his life & thus outlived it —
- A low diet — Dr. Rush benefitted himself much by it and Bank also — this last in the pulse of debility is a noble remedy

Hæmatemesis.

Comes on with oppression and sickness of Stomach —
 the blood discharged is black — but there are not always
 discharges — it somet. comes from the Liver
 swellings of the Spleen have subsided after the vomiting
 of blood here
 somet. a membrane is ejected from the Stomach
 a Hætic fever somet. follows this & is generally fatal
 also Ascites which is then incurable
 blood comes also from the bowels — red is alarming — gumous not so
 — exciting causes — Obstructions in the Liver & Spleen
 hard drinking — acid substances in the Stomach — ice-creams
 violent purges, Obstruction of menses, suppression of piles
 pregnancy — concussion —

Remedies — a table spoonful of salt once checked it —
 cold water — Land. if rejected ^{a small quantity with cold water} give it in glysters — Rose leaf tea
 alum & Sac. Sat. in moderate doses — if no food is ob-
 -tained abstain from them immediately
 Blister to region of Stomach — good from counteraction
 generally fatal when from Chronic causes

Melæna — Black & gumous discharges & somet. with green
 bile from the Liver — it succeeds obstinate obstructions of
 long standing in the Liver — seldom a recovery —
 if from the Bowels — v.f. if pale tense — liquid Land. by
 mouth & glysters — cold water & antispasmodic injections

Hæmaturia - Bloody urine from the
Kidneys and Bladder - from Calculi - haemorrhoides -
Cathartics -

R. venesection - glyst. of laud. & cold wat. cold ap^o to back
Cold water - Common salt - rest & low diet -

The Bleeding Piles

If the Hemorrhage be profuse - laud - cold water -
Sac. Sat. - Alum - Galls &c. applied to the anus -
also glysters of the same -
recumbent posture - rest & light diet - it is seldom fatal

Hæmorrhage of the Uterus

Occurring just before the cessation of the Menstrues
also from intemperate venery -

C. J. if pulse admit - cold to pubis - laud. in large
quantities - blisters to the thigh - Alum - Galls,
Sac. Sat. a Salivation -

it sh^d. be prevented if it occurs in pregnancy by occasional
V. S. - D.R. has thus often prevented Abortion -

By avoid^g climbing high stairs also -

• a diet of salted meat & vegetables

• If pulse languid - Bark Stiel and cordial diet

D.R. never saw it fatal except just after parturition

When in the latter stage of Consumption is gen^l. fatal -
it might be called a Pulmonary Consumption in
the latter - it is safe in its early stage - Then
use Venesection - Mucous & Milk diet

Hæmorrhage from Wounds

Refuse - cold air - cold water - Hyphes - also
lint sponge, fine flour - they coagulate the blood
adhesive plaster - blue vitriol - Boiling Spts. of Turp-
entine cantharide &c -
if all fail - the needle, Ambrose Paré first used it

Hæmorrhage from the Nipples

Astringents & Gentle Refuse -

Hæmorrhoidal States of fever - affect women more
than men & adults chiefly - D.R. knew it in this City
twice produce Gonorrhoea - causes are Acrid purges & part
aloes - costiveness - habitual use of Bitters - hard riding
& walking - Sore, Pregnancy - Hepatic Congestions -
Remedies 1st Bleeding, general & local during the paroxysms
local by leeches or punctures - a few drops often give ^{great} relief
lenient purges - ^{as Sulphur} glysters 3 or 4 $\frac{1}{2}$ - a Diarrhoea often attends
then purging is unnecessary -

- a continued horizontal position
- Cold water often cures after suppletion - also injected
- Poultices of bread 6℥ - pulp of Apple 3℥ + lead water
- Liquid Laud. & some oil on Cotton
- Warm water - Molasses - Smoke of leather
- Ointment of Tar & Lead aa pts -
- ℞ - Hog's Lard or Stannum Ointment 3℥
- Talc. Sat. Powd. Galls & Opium _____ 1 Dr
- make an ointment which use 2 or 3 t. a Day
- White Lead 3℥ - Sweet Oil q. s. make ointment
- Tobacco leaf - } Tax is by the fingers
used by the Indians }
- This disease is an important one & sh never be neglected

(Prolapsus Ani)

Matifications have here arisen from neglect -
 • it induces inflammation & Ulcer of the rectum
 - remember the more remote the inflamed part is
 from the source of circulation the more copious sh^d
 be the venous action - always carry in your mind
 the unity of fever
 remedies - replace it & to prevent its recurrence use
 lenient purges - cold bath - frig. ablation of part in cold water
 occasional bleeding - Wheat & Indian Meal mixed in diet
 constant exercise & in a Carriage
 - It is unsafe to stop the Hemorrhoidal discharge
 without substituting some other

Diseases of the Liver

Those parts that particularly sympathise with it
are the Head - Shoulders - Stomach, Bowels -
Calf of leg

There is also a numbness of the right thigh, leg & arm
a difficulty of lying on the left side - dif. breathing
a constant hawking - hiccups - erisipelas -
costiveness, & somet. a diarrhoea of an acid nature
tension - a dry tongue & somet. a yellowness of the eyes & face.

it may be compared to a Volcano pouring its
discoloured lava over ev. part - M^r Portal had one
case where there were all the symptoms of hydrophobia
the pulse is synochus fortis - synochus & somet. morbidly nat.
The Stomach is rarely free of its effects -

The Liver is the Cloacum Magnum of the system
taking of bile often mixed with pus of the head
remote causes acting 2^d - Intemperance of eating &
drinking - great heat - morbid miasmatic exhalat.
Gout & bad water accordg to Cleyhorn -

Women often have pain in the left
somet. Death alone discovers disease in the liver
Distinguish it from pregnancy by - pain inc. by a full
inspiration - by a cough succeeding the pain in the side -
by

but all the symptoms are sometimes blended in both
diseases -

The diseases are Hepatitis & Hepaticula - acute & chronic
 Diabetes bilious - aquosus - ventosus this last is a
 preternatural secretion & excretion of air - it may
 be called also a dry cholera -

Diabetes niger - secretion & excretion of black matter
 Dr Rush has called it the "black vomit" of the Liver

The Disorders of the Liver are

1. Hepatalgia - consisting in a total obstruction of the
 secretions & excretions of the Liver - this is somet. brot.
 on by Scrophula & by the habitual use of ardent Spirits
 Remedies - Caustic to the ext. region of the liver
 cold bath - friction - Calomel in small doses
 for months & years - Chalybeates - bitters & aromatics -
 long journeying.

for Hepatitis or acute inflamm. of the Liver

Bleeding - bleed early, copiously & often, if you wish
 success - nothing but prompt & copious bleeding will
 prevent a suppuration of the Liver

- after this purges - Calomel with Rhubarb & Glysters
 Pleisters to the side - tetan - Caustic -
 Low diet - Abstinence] - riding on Horseback -
 Mineral waters (Soda particly.)

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Cases are transient & chronic

1. Spasm in the biliary ducts - fear - Anger -
pressure from contiguous parts

2. Viscid bile - tumour or schismus in the ducts
coagulated lymph in the duodenum

Bile in this disorder exists in the blood as has
been proven by the experiments of Dr. Roebuck -

Remedies - 1. If pulse full & tense bloodletting -
if from spasm - Opium - warm bath - laxatives
after, tonics - if from viscid bile emetics, Soap &c

an empirical remedy - Potash Gum Arabic $\mathfrak{z}\text{ss}$ or
centile Soap $\mathfrak{z}\text{j}$ - Brandy 1 pint - Take from
 $\frac{1}{2}$ to 1 wine glass full 3 times a day -

R - Salt of Tartar } 1 \mathfrak{z} ea to 1 pint of water - if
Gum Arabic } there be acid in the stomach use
Centile Soap } The Tartar in a caustic state

to remove Gall stones Emetics, warm wat. Exercise
alterative use of Cal. -

- Prescribe for the State of the System if it change
a dozen times a day - Dr Boerhaave remarks
that the Liver is affected in 99 of 100 cases of all chronic
diseases - read Saunders & Laighton

- The Liver may be called the marked battery of Death.
The whites of fresh raw eggs, diluted with fresh whey, when
liberally taken, will generally cure the jaundice -
Leake on the Viscera

Opthalmic State of fever.

The worst of the diseases of the eye is where there is no change in its colour — here morbid excitement transcends inflammation — Dr. Rush calls it the dry opthalmia —

causes — smoke — great heat — blaze of fires — reflection from white objects —

except in venery — drunkenness &c.

repelled perspiration — (a coryza of the eyes.)

Fever — vapour of Onions — miasmata — contagion.

remedies — very low diet — blisters behind neck & ears

Bleeding general & local — purges — light avoided

R - Corros. Sublimat gr ij } a remedy of Dr. White's
Spirits & Water aa ʒij

R - Laudanum ʒi } a remedy of Dr. Storck
wine & Water aa ʒij

R - Opium ʒi } to be dropped in the eye
Galls — ʒij
Water — ʒiv

Sulphat. Zinc ʒi }
Sac. Sat. . . gr X
Water — ʒiv

Alum ʒi - Water 4 ʒ.

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for sores on the Eyelids, Citrus Ointments
also eg. parts of Ten Hogs Land -

. when from a venereal taint a salivation is indispensable
. when from miasmata - Bark in the intervals is best
. when from foul matter (contagion) ~~little or food~~
or from diseased action in the Stomach emetics should
be given - Bitters should follow here -

. if it be accompanied with general debility or Leophrula
Bark & good diet, if the pulse do not forbid also Prep.
of Iron -

. if it arise from particular diseases bring them back
if from dysentery use purges

attend in time to these diseases, otherwise they end fatally

D. Rush calls the Blood shed an ecchymosis of the eye -
there is no pain - it yields to any gently stimulating
eye water

Odontalgic State

remedies — extraction when possible —
 • this is forbidden in pregnancy & where there is much
 predisposition to hemorrhagy —
 • bleeding — general if the whole system sympathise
 if not local by lancing the gum & by leeches [S]
 purges — Blisters behind the ears — a blister ex-
 cited on the gum by Cotton dipped in tinct of Cantharides
 made by 3℥ of flies to 1 pint of rectified spirits —
 Ruffer says it is an instant cure —
 also apply the inside of a fig — roasted raisins —
 Tobacco chewed — snuffed — also Cal Soap Sugar as
 an Erhine — Spirits kept in the mouth —
 Laudanum in large doses — Opium in hollows of tooth
 Joy and fear —

Externally — warmth by heated sand — salt — ashes &
 paste of Opium & wax — of Ginger — of pepper —
 paste of land & ginger — Mentum behind the ear
 often gives relief —

• if it accompanies bilious fever — emetics are useful
 • when arising from gen. Diseases use their remedies —

Decayed teeth are the inlet of Several Diseases —
 see his letter to Dr. Millar in New York Medical Repository
Inquire into the State of the teeth in all chronic diseases

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Otaeic —

Bleeding - Pricking - Blistering —

- Smoke of Sugar conveyed into ear by funnel
- if tending to suppuration, a cataplasm of bread milk & onions over the ear

Scrophulous state of fever —

- This disease is genly. accompanied with more or less fever —
- it affects Children & Impubes principally —
 - the parts chiefly - glands of the throat - nose - upper lip - breast
 - It prevails much in marshy countries —
 - it is rare in the United States —
 - the Glandular disease (Swelled leg) of Barbadoes is of this nat.

Remedies - accommodated to the State of the System
 in an excited State - Bleeding - Purging - low diet,
 and when pulse reduced then Tonics -
Bark Salusda Common Salt Sulphat of Magnesia
Saltwater Calomel with or without Opium -
Muriate of lime - Cold Bath - Cordial diet &
Drinks, bandages, exercise & change of Climate -
Burnt Sponge (Sal soda in its ashes) -

D. Darwin mentions a quack remedy to disperse the
 tumour - R. Powd. Oak Bark ℥ij } with any
 Gum - - - - - 3℥ } liquid - made
 also Tartar Emetic 3j. } into a poultice -
 Water - - - - - 3℥

2 ℥ of Salt in a pint of Water

The Goitre is a form of Scrophula - it affects the
Fetus in utero - it is increased by pregnancy -
 it affects Dogs, Sheep - Pigeons, Hogs & Horses -
 thinks Dr. Bantons opinion highly probable

Scorbutic state of fever.

It appears to be an epitome or concentration of all the states of fever —

remedies according to the state of the system —

. If the pulse be tense bloodletting. Dr. Donald Monroe, Dr. Hume, & Dr. Mc. Canby have used it with success. Dr. Rush used it 3 times in the Hospital with success —
 . Gentle purges & low diet with sol. of $2\frac{3}{4}$ of nitre in a q. of wine
 for a languid pulse — Salt & fresh & acid vegetable diet
 cordial & stimulating passions —

To prevent it — Acids — Lemon & Orange — Sau. Kraut — and
 fermented liquors — liberal use of Sugar — Tea & Coffee —
 Bread instead of biscuit — fresh air — high chambers —
 avoid the exciting causes —

Hydrophobic state.

Bleed, Blister & purge

"Cold is an utter enemy to the Nerves" says Hippocrates
and Celsus -

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The Nervous System —

The Bloodvessels are the Outposts of the System — few other diseases are known among Savages, but in Civilized life the bloodvessels acquire so much of the Stricture state that they are often passed by & the disease is fixed in the Brain & Nerves — They are Apoplexy, Parly, Coma & Convulsions —

They are all different grades of the same disease — here followed the Arguments —

1. Apoplexy is a higher grade of Epilepsy — the former may be compared to a Pneumonia notha — the latter to Pneumonia Synocha —

• The pulse is somet. as low as 7 in a minute —

• Women are less subject than men

• is hereditary — short neck & big head —

• Children are much subject —

• it somet. affects a dozen times before it kills — among many other causes it has been induced by Parturition — loud & vehement talking — 1 of two Players on the Stage expired whilst repeating these words "is there not another & a better world"

Anger has thus suddenly killed — also Joy —

— The same mode of treatment is alike proper in each case whether it proceed from water or blood

Remedies —

1. Loosen tight ligatures.
2. Clear the room of bystanders & admit fresh air.
3. Elevate a little the head & shoulders.

Deplete by venesection according to the pulse
also by local bleeding and from the side opposite
that affected — be prompt in your remedy of
bloodletting, particularly when from contusions on the
head let it then be copious —

• also cut off the hair —

Emetics thro' the mouth — ap^d to nose or tickling the fauces,
active & acid purges, aided by stimulating injections
• letting a tab. Spoonful of salt dissolve in the mouth
• attend to the state of the bladder —

When Apoplexy is from lightning, poison, electricity &
copious affusions of cold water over the head also
all those remedies employed in Asphyxia —

The same stimulants will cure applied to one
part of the body that have deranged other parts
in extravasations in the head — Blisters to
the arm — neck & head — Cataplasms — Strong
Stimulatives — Electric shocks, intense light — loud
noises — The actual cautery to the head

Unfav. Signs - 1. Coming on without premonitory symptoms
 2 occurring in Young men - 3. 1 side convulsed
 4 carrying the hand to the head -
 5. a full, bounding & slow pulse & intermitting
 6 a pale face - 7 foaming at the mouth
 8 absence of fever - 9 difficult respiration
favourable are, General fever - moderate sweats -

do not inter for several days - Dr Rush ment^d
 a case of recovery after 3 days

"To prevent - Temperance - gentle exercise - determine
 the blood to the feet - sleep on a mattress - light covering
 loose ligatures & cloaths - avoid sleeping with neck bent
 after dinner -

- habitual evacuations
- white flow of saliva by tobacco
- a constant use of a small quantity of Garlic
- Never sleep on the back.

"There is also the facial apoplexy - a suffusion of
 blood in the face -

Coma

Consists in more profound sleep than is natural
 Dr. Willan relates a case that lasted 26 days
unmedicated. Bleeding, Purges, Stimulating applications
 to the feet — if these do not answer then use
stimulants — a whisper will awaken one
 asleep often when loud noise will not —
 Mr — awakened Mr. B. from a Coma by gently
 rubbing the soles of his feet

D. Ferriar has found the most singular advantages from the Arserical Solution in the last stage of Typhus (read of Typhus mitior p. 418 Thomas) when every thing else had failed to rouse the power of life — Thomas also had a case — administered it in an infusion of carcanilla with an equal quantity of camphrated mixture

me su amigo - Seria mas feliz
si fueseis mas distinguido - Su padre
seria mas feliz si fuese menos avaro -
El hombre seria menos infeliz si fuese
menos ambicioso - Quien hubiera ^{creyera} creído
que la guerra hubiera durado diez años
seria justo si fuese severamente castigado
muchos niños no serian tan ignorantes

Palsy. —

This is a generic term.

It is divided

1. Palsy affecting the Brain itself — Paralysis cerebri
2. " attacking the medulla spinalis
3. " " the nerves & their branches —

1. of the Brain or Cerebral Palsy and when with the loss of voluntary motion of one side — it is called hemiplegia

. the eyes & ears are sometimes impaired —

. the taste also on one side only —

. also there is often present an excess of sensibility

Ramizini relates a case where there was no motion with an excess of sensibility & another where there was an excess of motion with no sensibility —

Dr — relates the case of a man who possessed muscular power in sleep only & Dr. Rush relates of Dr. Mughlenby that he could move his paralytic arm only when he looked at it

. the pulse is generally full & frequent, particularly on the affected side — Dr. Rush heard of one instance of its being a filial disease —

The premonitory signs are head ache, numbness of one side & of head & lips — loss of memory —

— Small & repeated bleedings may prevent its formation here — cupping also, which is better —

when formed - copious bleeding if the pulse be excited
 the Rivian mode when depressed

- Purges if the pulse be active & spontic of Palsy of the Brain -
- Low diet
- Emetics with advantage
- Blisters to the Head Neck
- Issues & Letours -
- Laxatives -
- Ligatures on arms or legs
- when the pulse is quite reduced, then frictions with the dry hand & flesh brush stimulating substances
- Warm Bath - the heat sh^d be below the animal heat the vapour Bath also
- cold bath if the warm be of no service & st to the head
- gentle repeated shocks of electricity when the pulse is completely reduced.
- Garlic - Oil of Amber, - Cloves - Opium, wine & other cordial drinks
- extraction of decayed teeth (benefit here from the great terror & excessive pain —)
- Anger &c
- Challosing down the Throat when Aphonia continues after the disease is removed -
- avoid always sleeping on the same side & sitting with the same side to the fire

remedies for the 2^d Head (Med. Spinalis)
 when coming on suddenly — Bleeding from the spine
 by cups & leeches — low diet, purges — Misters —
 when gradual, Frictions, Electricity & —
 Misters on the spine

Remedies for the 3^d Head —

The signs whereby to distinguish it from Palsy of the head —

1. it is never preceded by premonitory symptoms
2. there is no disorder in the senses seated in the head
3. no intellectual derangement
4. a nat. feeble pulse

These are uniform symptoms

— Bleeding — general & local

Purges — low diet, stimulants — cordial & Dover's
 Opium if pain

in paralysis of the arm — weights

fav. signs are — pain, swelling, itching & of affected part

there is little danger when it arises from cold
 return of voice —

— infar are impaired senses — sweating of the affected part

The Palsy of Old Age is incurable —

The 5 enumerated are these — Paralysis Cephalicus

" Spinalis externus

" " internus

" Nervosus

" Lentic —

Catalepsy

This is a Compound of Apoplexy, Epilepsy & Paralysis —
 insensibility in the nerves —
 common cause — is a long attention of the mind to one
 object, as in the Case of Archimedes —
 Case also of a young ~~Love~~ Man from Love —
 intense & continued with his attention to this one
 subject as to exclude entirely every thing else —
 he looked "like a Statue stepped from his pedestal
 to take the air" —
 remedies — bleeding — purging — low diet — Stimulants
 . divert the mind also —
 . gratification of the desire .

Of Wakefulness.

1. from Mental causes — as — undue exercise of the passions
 . of the understanding — vexations — guilt
 . those reducing the brain too low as Fear &
 2. from a mixture of Mental & Corporeal causes —
 occurring chiefly in old age —
- Remedies — when the Brain is above the sleeping point
 . Bleeding — lenient purges — low diet — no supper —
 . cold applied to the head & warmth to the feet
 . sleeping without a night cap
 . profound darkness & silence
 . Blisters — Labour — walking for a short time
 before going to bed —
 . lying with the head elevated
 . Bottles of hot water to the feet
 . exposing the ears to gentle sound & monotonous ones
 they act by wearing down the excitement
 . making them stand 'till they nod
-

remedies when the Brain is below the sleeping point,

1. Opium, begin in small doses, as 5 drops of Laud.
 - 2 Tinct. of Hops — also Hops under the head
 - 3 Asafetida in tinct. or pills
 - a light supper — Porter —
 - Warm bath or pediluvium — Light
 - a customary noise
 - throwing off the bed clothes & allowing the system to reach
 - jumping out of bed & walking about
 - being rocked in a cradle or swung in a hammock
 - going to bed always at the same hour
 - riding in a Carriage
 - communicate nothing interesting just before bed time
- all these are to elevate the system to the sleeping point

Vertigo — 258, -

Causes are transient & permanent — let the remedies be accommodated to its causes —

1. if from worms in the frontal sinus — the infus. of Tobacco

it is always a good sign when bleeding induces head ache

2 Purgs — 3 reduced diet — 4 Blisters — 5 Issues —

6 Plaster of Shoemakers wax to the feet

7 After the pulse is reduced, Tonics and st that of Garlic is very important — Then prep. of Iron

the customary evacuations repelled eruptions should be brot. back. —

259. Head-Ache

Women are more subject to it than men, in the proportion of 10 to 1.

— it is divided into six heads

1. That arising from its organization,

2. " " Nerves

3. " " Bloodvessels,

4. " " the Stomach,

5. " " the Senses,

6. " " the Mind,

The 1. head induced by malconformation &c and by concussion also — this is generally incurable but may be relieved

The 2. head (Bloodvessels) induced by fevers of all kinds
 • by Gout — it is here preceded by pains in other parts of the body — by sickness at the Stomach — and by
 • by relieved by pain in other parts
 • by Rheumatism
 • by great heat & cold
 • by puberty &c &c
 • bet. the 36 & 48 year.
 • Affection of the Menstr
 • Obstruction of clo

- . tight dresses
- . sleeping with the head too low or the neck bent
- ~~the head~~ - Remedies - When from the blood vessels
- emetics &c -
- . if from Gout & pulse excited - bleeding more copious
- also by cups - purges also - abstemious diet
- cold applications to the head -
- . cutting off the hair & sleeping without cap
- blisters to the usual seats of Gout &c -
- . When from Rheumatism - incision on the scalp
- a salivation and when the pulse is reduced
- opium, Wine - Vol. tinct. of Guaiac. Stimulants to feet
- cayenne pepper - Sautie - Enkines - local sweat
- labour or exercise

3. head - The Nerves - from great heat & cold

. moisture - . certain insensible qualities in the air

. impressions on the Stomach - fatigue - wakefulness

some. there is a sick head ache, preceded generally

by cold feet - dry feet - &c

6. - abstinence - a dose of land - 3 or 4 glasses of

Wine - Judicious. Emetic if Stomach affected -

purge - copious sweats - swallowing 3 or 4 grs. of

pepper - if these fail and the symptoms be

all increased, with acute pain - then Remedies will

be bleeding if pulse ~~be~~ require - cold to head -

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purgers — blisters behind the ear —
cataplasms to the feet
tight bandage on the head — night
in the intervals garlic — bitters, prep. of Iron —
cold bath — cordial food — constant labour
avoid the application of grease or powder to the
head & also the exciting causes —

4th Head — The Stomach —

1st from Bile

2nd " indigestible food & from idiosyncrasy
remedies — gentle Emetics

5th Head — The Senses —

1. by certain odours

2. " looking down from great heights

3. " loud talking

remedies — a removal of the causes

6th Head — The Mind —

remedy — the same

— The pain in head aches somet. affects $\frac{1}{2}$ the head only
the forehead or occiput — the orbit of both eyes —
it is dull — or acute — & constant & attended somet.
with short remissions — scalp sore to the touch
tis often periodical & somet. perpetual — Dr Boer —
— have thot. head ache had its seat in the dura mater

when left to itself it terminates in Palsy,
 stupor, Epilepsy & Madness —

Directions — change your remedies with the
 varying changes of the disease. —

263,
Epilepsy

"A Horse - a horse [a kingdom for a horse]"
was the exclamation of Richard the 3rd and
here Gentlemen I feel as if I had fallen prostrate
from my Chair and ready to cry out a remedy
a remedy - a kingdom for a remedy for Epilepsy -
I confess I am unable to cure it.

Its predisposing cause is Debility from increased sensi-
-bility or irritability - it extends to the Brain, Nerves,
Muscles -

- . it affects all ages
- . its intervals are from 4 hrs. to 6 mos -
- . the fits occur oftener in the night from the greater
pressure of the brain at that time
- . they often impair the faculties of the mind particularly
the Memory - Case of a Boy in the Hospital
whose Moral faculties were so deranged by them
that he was in every kind of mischief
- . someb. they improve the faculties of the mind
and also the Moral faculties

Causes - 1st

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2. Tumors
3. Malconformation
4. Vitiated air
5. Suppressed eruptions
6. Retarded excretions
7. Diarrhoea
8. Excess in venery
9. Onanism
10. Sleeping in the air
11. Poisons in the Stomach
12. Decayed teeth
13. Worms
14. Cold water
15. Great exercise of the understanding
16. Passions & Emotions
17. Mental Sympathy

The causes you see are the same as Apoplexy
- it is congenial - hereditary & local
There are associations in the body as well as in the Mind

There are 7 grades in the paroxysms

1. Convulsions in the Throat - Bowels - Stomach Seminal &c
2. " moderate so as not to alienate the mind or prostrate the body -
3. " of part of the limbs without impairment of the senses - &c.
4. Sudden jumping &c. without impairment of mind
5. Faintness with a short suspension of speech this continues but a few minutes -
6. Contortions of the muscles of the face only
7. Involuntary revelation of every thing - This Dr. Rush calls a convulsion in the will

Difficulties then the same as in Apoplexy -
 Let us view the Operations of Nature in this disease
 it is cured by Puberty. Dr. R. knew 2 cases -

- Pregnancy & Child bearing
- Change of Climate
- Hardships of Camp - Caesar thus cured
- A long journey -
- A burn
- A quagmire fever.
- My Age

st The Remedies may be divided into 3 heads

1. Those for the forming state - where there is a bitter taste in the mouth - an enlargement of the pupils - a tense or slow pulse - pain in the right eye - trinitas aurium - pain in the feet - pimples on the tongue - aura epileptica - a swelling of the veins of the forehead - singing - dancing - laughing & a hasty elevation of the faculties of the mind -

. Bleeding if the pulse be tense

. Emetics

. Abstinence of animal food - gentle purges -

. Laud. or Opium - juice of rue - smell of sulphur - Tobacco to the pit of Stomach -

. a Bucket of water to the head - the tourniquet

. cutting thro' nerve - exciting fear - getting suddenly out of bed -

all these have occurred in D. Rush's patients and are all to be disused on

Remedies in the fit - st Bleeding - fresh air - loose collar - mustard to the feet - cold to the head -

in the intervals remove all remote exciting causes - decayed teeth - tumours &

in the worst grades - depletion & st Bleeding - 2. a reduced diet - Cullen says more cures have been thus effected than by other means -

3. A milk diet - This acts in 2 ways -
uniformity must be observed here
4. - a salivation - 1st used by Dr. Hugh Smith of London - it sh^d. be kept up for 6 weeks
Bleeding should precede this -
5. Cold applications to the head, bladder &
6. Sleeping in a chair
after the reduction of the system then powerful tonics
so as to overcome the predisposition to mobility &
irritability -
- 1st The Vegetable as Mistletoe, Bark, Calumina in feeble
stage - Opium
- Stannum - Archer & D. Barton used it
do not be too tender of the Prostate

R ^x Stannum	℥ij	} to this 1 pint of Spirits - take from 25 to 100 drops in the day -
Opium	℥ij	
Caster	℥ij	
Campbr	℥ij	

Chalybeates - Zinc 2 to 30 grs. in a day
Sulp. Zinc 1 to 4 grs. 3 times a day
Sulp. of Copper & Cup. Ammoniacum from
Magistery of Wismuth & C.
Nitrate of Silver from 1/4 to 3 grs. a day
Phosphorus
Sugen of lead 1 to 3 grs. 3t. a day - D. Rush cured
3 cases of Children - to prevent its ill effects on

the bowels combine it with Opium. —

Dose of Amber 10 to 20 drops 3 times a day
Cordial diet & drinks

Constant labour ?

Case of 14 Soldiers in Canada thus cured —
how would it do to excite a high fever ?

— Do not forget that this disease is seated in the
Brain — Bloodvessels — Muscles & Nerves —

What effect from lessening the period of sleep ?

The Militia Officers in the last war who had been
accustomed to sleep on bare floors were seized with
convulsions whenever they lay on feather beds

• Blisters —

• The Actual Caustery — Waller applied it on the sagit. tub —
Bonaparte had 20 blisters on him at once &
was thus once cured of Epilepsy caused by expelled
vapours —

• The Itch —

incurable cases when from dentition in infancy —
mental stimuli —

— Find out the grade & suit your remedies —

• translate it to the other systems — on the skin &

• excite action in the bloodvessels & I repeat

again be not too tender of the Brain

Hysteria

Is Epilepsy in all the systems except the
Bloodvessels. —

remote causes — Obstruction of Menstruation or inordinate flow
Fluxus Albus, strong drink & strong Tea

Mental — Anger, Malice, Jealousy, Envy, strong animal
desires —

exciting, fear, terror, surprise

symptoms — a rumbling noise in the abdomen,
the Globus hystericus, the clonus hystericus,
cold on the back, laughing & crying alternately
[I think not a hysteric predisposition in those who
are excited to laughter & to tears upon any slight
causes — I know several instances even among men
and one in particular J. R. from London who
is of the Nervous temperament S.]

remedies — 1. In the paroxysm — Bleeding if the pulse
be full & the system plethoric

- Pediluvium — Gentle or Murdant to the feet
- Opening injections with sol. of Arafat. or lead.
- Stimulating Odores to the Nose — A New England
Doctor once held his toes fanning with fabor to the
nose of a female patient & recovered her. —
- Cold Water on the face & dropped on the upper lip

In the intervals — if Blood vessels plethoric, occasional
bleeding & abstemious diet —

milk diet & unnet whey

where there is no diseased action in the

Tonics — T. Cordial gums — Bitters — Metals — Iron,

Copper, Zinc & Lead — Iron is partic^{ly}. useful

volatile liniment to the abdomen — Binding with

tight Bandages — Salted diet with good wine &

Porter — Exercise on horseback & labour —

this last is a very important highly useful

remedy — attend to the pulse —

& to the excitement of some steady passion —

it was handsly known in Scotland during the

rebellion —

• regular religious duties & ceremonies

• Domestic occupation or care of any kind

• change of climate — to one colder

• Matrimony —

We must persevere in all these remedies for
months & years & thus we may remove the predispo-
sition to it. —

Sneezing is good in hysteric fits says Hippocrates — s.

271. Colica Pictorum.

This disease is seated chiefly in the muscular and nervous fibres of the lower bowels partic^{ly} the colon - it has been called in the West Indies an introverted Tetanus & properly so -

- somet. it is blended with the bilious fever
 - somet. it is attended with a temporary Gutta Serena.
- The Men working in lead, eat fat meat to prevent the Disease -

causes are Direct & Indirect -

The indirect one - Pressure of contiguous parts or from the Uterus called Uterine Colic.

- Cold particu^{ly} affecting the feet
 - fatigue
 - tight dresses & all the causes of Gout & Tristimania
- fear & grief are often the exciting causes -

Mercuriory signs - cold & dry feet - flatulency &c.
take a few drops of Laud. 10 to 20 -
also ride a trotting horse -

After the disease is formed - ^{st.} a Bleeding & copiously
even ad deliqu. animi - this does most good
when it arises from

also by cups, leeches &c. from the spine

- Laudanum then in divided doses with it Tinct. of Anapoda. (D. Quin recommends this -

- Tea of Buckwheat leaves to ease pain —
 Warm bath or warm fomentations with sweet
 oil of Turpentine — also the dry hand rubbed —
 Purges, beginning with the lenient — These often
 open the bowels when the more drastic will not —
 use large injections of warm water —
 - Glysters of 2℥ of Tobacco to 1 pint of water —
 - " Turpentine 1/2 gill to 1 pint of water &
 in desperate cases 1/3^d. Brandy to 2/3^d. pint of water —
 - Gum Guaiac. & Loaf Sugar 2℥ each
 Water . . . 4℥ M.

- Take a table spoonful every 4th hour —
 - large doses of land. every 4th hour —
 also land. injections with small quantity of water —
 - Glysters of cold water also — I have done says
 Dr. Rush, great service with this remedy — he
 had a patient also who always cured himself of
 the colic by drinking large quantities of cold water —
 - Suppositories — Gum Myrrh, Crocus, Frankincense 3℥ each
 Opium ʒi

mixed into a solid mass with Yock of egg, honey —
 exhibit the purges when the griping begins —
 - Blisters, partic^{ly}. if there be a gouty constitution, to wrists,
 thighs, ancles &c. and to the Spine perhaps more useful —
 the obstinate continuance here often proceed from a paralysis
 of the spine.

- Cataplasms or tritapisms to the soles of the feet & calves of the legs - perhaps to the spine -
- putting the bare feet on the cold hearth and
- throwing cold water over the abdomen -
- a salivation - a spontaneous one cured 4 cases -
- Gov. Lewis mentions the Indian remedy of treading on the belly - perhaps a tight belt w. answer -
- Emetics useful in evolving the gut -
- remove all remote & exciting causes -
- no relief should be considered as afforded until a diarrhoea succeed & there be a griping about the navel
- Favourable symptoms - 1. a disch. of wind downwards
- 2 flatulency
- 3 sensibility of the skin, partic^{ly}. the feet

unfav. - feces by vomiting - viscus & cold sweats &

3 delirium -

To prevent the recurrence, avoid costiveness & all the exciting causes -

For costiveness the following

Cude Taut - Cream of Taut. & Salt of Taut. 2a pts. -
avoid indolence - use warm clothing
use the Egyptian belt -

274. *Chorea St. Viti* —

- Females most subject to it —
it often arises in Children from Warm
wind — 1st Constriction according to Sydenham
2 Sulp: Zinc & Flor. Zinc —
3 Oil of Amber —
4 Cold bath
5 Salivation
6 Exercise

Dr. Rush never knew it incurable in persons under 20

Hiccups

Dr. R. has heard of this continuing 2 & 3 years — the
patients being otherwise well —
O. S. Oil of Amber — Laud — when local, pearse —
large qts. of water — ginger tea — in its chronic
state — a change of Climate — Salivation — Blisters
it consists in a convulsive motion of the Diaphragm
& is connected with diseases of the Liver, Spleen &c.

Cramp

In Pregnant Women called *Eclampsia* — it often oc-
curs in the night — from the debility of abstraction
remedies, in Pregnancy, copious O. S. come up to $\text{£}100$ —
Ginger — Laud. Tight ligatures —
grasping rolls of Prism stone —

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Costiveness

Among other causes Intense study —
the mind occupied forgets the necessities of the body
(Thus Shakespeare in Lear "The tempest in my mind
doth from my sense take all feeling else, save what
beats there" 5) —

Judges are liable to costiveness from being often con-
demned to retain their feces too long —

Remedies — 1. early rising & exposing the body to cool air
2. visiting the privy every morning & making efforts to evac-
3. using a close stool in a warm room in cold weather,
4. a laxative diet — Indian Corn Bread — Rye Bread,
Rye drink & molasses — Summer fruits

5. Cath. medicines removing the torpor of the bowels as,
Bark, Iron, Senna

6. rubbing the Side with the hand also Calomel
enough to affect the mouth

• Stimulants to the Spine? — True as from injuries
here the bowels are often affected with partial paralysis

palliative remedies —

- 1 Sulphur - Cream of Tart. Magnesia - Prunes -
Rhubarb by chewing - pills - tinct or watery infus -
Aloes + Butterum filice should never be taken to
obviate habitual costiveness - neither Salts or Senna
- 2 Glysters and warm water - The French practice
- 3 - Suppositories - Aloes - Soap - or Wax
- 4 - Touching the Anus with Sweet Oil
- 5 - Aloes to soles of feet
cold feet on an enema stool —
remove all remote causes —

The Bowels are in a nat. state

1. When there is one stool a day
- 2 " no wind preceding
- 3 " bene colorata et bene odorata

for flatulencies - solid diet - ginger tea - tinct. Anap.
oil of Amber -

^{277.} Dyspepsia (Gastricula)

The Stomach sympathizes with almost all parts of the body partic^{ly} the Brain, Liver, Bloodvessels & Nerves -
Talents & virtues are much influenced by its state
so is courage - - - as also the temper -
witness the difference bef. & after a meal -
its healthy state is connected with longevity -
it is to the whole body what

it is the flag of health when sound and the
avenue to most chronic diseases when diseased
Lord Chesterfield's remark that "a hearty breakfast
and a sunny morning

Symptoms in the Stomach -

1. Gnawing & uneasy sensation there -
 2. Gastric dyspepsia - 3. Acid eructations - 4. Pyrosis
 5. Costiveness & occasionally a perverted appetite & partiality
for putrid animal food -
- these symptoms often continue for years without
affecting the general health -

Causes - direct & 1. Acidulent Spirits - Time has
been styled Eclax rerum and with equal propriety
may these be denominated Eclaces hominum

2 Strong Tea & Coffee

3 Aromatics & Bitters

4 Snuff & chewing & smoking Tobacco

5 Excess in Acids

6 Frequent repletion with gross food

7 Swallowing without mastication #

8 Hot & cold drinks taken largely - Cold water
is most injurious before breakfast & just before going
to bed -

9. Excessive use of Sugar -

10. The exclusive use of Animal or Vegetable food. -

11 Worms or Bile in the Stomach

12 Frequent use of Emetics & purgatives

13 The habitual use of Nixes -

14 Obstructions in Senescement of Pancreas Liver
Spleen Omentum - also the introversion of the enig. caud.

indirect - 1 on the body - as an indolent life

2 Lazing - 3 Pregnancy, 4 Suppression of nat. sweats
of the feet - 5 Offensive sights & odours -

6 fevers of all kinds - 7 diseases in the head, Liver &
tick head ache - the Stomach is almost always
affected in Liver complaints (see Dr. Clarke -)

9 great pain -

Ariosto died of Dyspepsia from bolting (from absence of mind)

279.

Causes of J. thro' the Med. of the Mind

1. Intense study, partic^{ly}. after eating in a bent posture — This disease is emphatically called Morbus Studiosorum —
- 2 Grief — Fear — vexation &c

Remedies divided into palliative & radical.

1. In the heart burn arising from acidity & from a morbid action of gastric liquor — Remedies are Alkaline salts — Magnesia Soda water Chalk Lime water, Calcined Oyster Shells Calomel in powder, — The powder of Brickdust or Charcoal to obtain — the pips in fowls is cured by this [D. James supposes this word to be an abbreviation of Dyspepsia]

2 - Unskimmed milk, the acid decomposes it

3 Mineral Acids — They induce a stronger action than the morbid Acid (The Mineral Nitric but)

For flatulency — Ginger tea, Spts. of Turpentine, Liquid Laudanum — Cold water —

For oppression after eating — for sickness vomiting

1 An Opium pill just before meal

2 A small quantity of food at a time & often — the Stomach sh^d never be full or empty

3 - eat at all times — Day & Night
ginger nuts are good

5. Take food in a recumbent posture and do not rise for several hours after
6. Take of but one kind at a time
- 7 Avoid drink with your food
- 8 Rub the Stomach gently after every meal or apply a Ligature around
- 9 What of fasting for 24 hours or longer?
10. A tea spoonful of Salt or Pepper grains after every meal

For Anorexia — I never let my patient smell the food before he eats —

2. Surprise the appetite of your patient — a present from a friend is thus grateful and from the feelings of pleasure in being remembered —

For Gastrodynia — Hot water — Peppermint tea —
~~leucodermis~~

For Water Brash (Pyrosis) Acids & gentle Stimulants —

radical remedies

(281.)

1. Bleeding

2. Purgers, according to state of bowels — Butternut pill
3. Vomits, they are most useful when the affection of the head is the primary one
4. Milk diet — 3℥ of Potash to 1 pint of Milk is good, also boiled turnips — baked fruit, pantie y. pears — they sh. be given by weight measure —
Then after the system is reduced

1. Stimulants — The Vegetable, or Bitters, Chamonide, Rue, Gentian, Columbo, Quassia
2. Aromatics &c — as Nutmeg, Camellia Alba, Calamus, Ginger, Juniper Berries — Black pepper — Mustard — horse radish, Garlic — each in succession & rotation
3. Elixir Vitriol — Nitric Acid — Sulph. Zinc & Copper in small doses & above all Prep. of Iron with
Ginger — —

℞. Sulph. Acid 3ij } take a tea spoonful 3t. a
Sulphat. of Iron 3ij } day in some bitter tea
Water — Spirit

The Diet now should be solid animal food & the wild preferred — let them be tender & thoroughly done, also Oysters & soft boiled Eggs — these are often retained when nothing else is —

Keypson tea — Broths, Coffee — Vapid vegetable food sh. not be taken —

• Biscuit — crusts of bread & roasted Potatoes —

- may take also fresh Butter
- drink pure water if the Stomach will retain it
or toast & water — when these are rejected, Seltzer
or Soda Water —
- Ginger with Cream & Sugar recommended by Sir Jos. Banks
- Porter or Ale diluted with water
- Old Madeira & Sherry wine
- Ac. Nitric Acid 2 $\frac{1}{2}$. Old Spirits 4 $\frac{3}{4}$. Water 1 quantity
with Sugar q. s. is very agreeable
- Brandy & Water sh. be avoided to with great caution
- Exercise with the arm & lung, on horseback
dumb bells — reading aloud — sympathy of
lungs with the Stomach
- cold bath — also on head, arms & pit of Stomach
- Blisters — Salivation

Avoid all exciting causes —

— this disease terminates in the following manner

- 1
- 2
- 3
- 4
- 5 Aphthous sore mouth
- 6

The sickness from Sealing has been presented & Bleeding
& Purges —

Commie Appetite (Bulimia)

From excess of the gastric juice
remedies Aliments of all kinds Difficult of Digestion
half boiled potatoes or turnips - half boiled meat
 . Sweet oil 3 or 4℥. a day -
 . Large doses of bicarbonate of soda
 The Subjects are mostly leone

Syncope is someti. an hereditary disease -
 When it arises from great heat, put the feet in water above the
heat of the body "
 when from cold, landanum

Suspended Animation —

- remedies — 1. Placing the body in an easy posture
 2. Warm frictions, gentle or forcible
 3. inflating the lungs by bellows stopping nostrils & mouth
 give 3 or 4 inflations perhaps better with respired air
 Linnaeus' daughter was still born & thus brot. to life
 also the child of the Humanite was thus revived —
 4. Stimulants into the Stomach by a tube
 5. Glysters are important & stimulate by their quantity
 or by their quality
 6. Stimulants to the ext. parts of the body — boy pinched
was cutting the flesh sh. not be objected to in desperate cases
 or boiling water — apply the stimulants to the
 most sensible parts
 • certain odours have sometin. produced resuscitation —
 the human voice also & violent sounds — so has a whisper
 • An Irishwoman was brot. to life after 67. laid out
 by her lap dog licking her lips
 • tickling the soles of the feet
 • Stimulants to the navel

Anecdote from Brown's Buffon Errors — A Butcher after
 treating those watching the Corpse came up to the body of
 his Master saying "Come Old Jack you treated us in your
 life time — you shant be forgotten now you are dead & with
 this pound down his throat a glass of Brandy — some of it
 crept into his windpipe & excited violent coughing and
 restored to life the

After recovery bleeding should never be omitted when indicated — Otherwise chronic diseases will follow —
When in a Trance — lenient measures — warm bed &c.

Signs of Death

- . A Clammy skin
- . Complete relaxation of the Sphincter Ani
- . A putrefactive odor — tho' this is present somet. in malignant fever when they recover —

Veneral Disease.

D. Rush thinks it coeval with antiquity & arising from excess in venereal pleasures — The vagina from this excess becomes highly inflamed and secretes a very acid liquor which infects the male organs —
D. R. thinks he has known it proceed from the excess of venery in young married couples —

Gonorrhoea benigna & violenta

1. The Benigna arises from V. Mucosae
 2. from excess in venery
 3. " avoiding venery altogether
 4. " Old Age —
 5. " Gout — see Dr. J. Clarke 3^d vol. of Physical Essays
 and Dr. Rush knew 3 instances of it in this City —
 6. Onanism is a frequent cause —
 7. Hard labour — see Dr. Fisher's letter —
 8. Hard drinking —
 — It is often confounded with two other diseases
 — that from the Prostate glands, discharged with the stool —
 " " Bladder — copy — dis. with the urine
 and with the emission of Semen —

2. The Virulenta arises

1. by impure coitus
2. " on infected bed
3. " " small cloaths
4. " sucking children
5. " infected privies

it infects principally the lymphatics & glands
the blood also is contaminated in congenial gonorrhoea

(Cure.)

Attend as much to the pulse here as in any other dis-
-ease in plethoric habits deplete first — attend to the
state of the system and with it the local remedies
injections of sweet oil — of hypos of lead & of Zinc —
of diluted Corrosive sublimate — all made
stronger or weaker according to circumstances —

[D. Chapman uses almost wholly the Balsam
Capivi — begin with 10 drops 3 times a day — increase
to 40 + 50 — even much higher — I have given 80 drops
in the hospital — if the case be mild I presume
this remedy w^d answer without injections — attending
to diet — & avoiding irritation of every kind S.]

For Cordae, bind the penis down
& Bubo sh^d. be left to open of itself

for Gleet - infusion of Bark - Tormentil -
Lac. Saturni -

Ac. Sak. Sat. 10 gr. } inject 3 or 4 times a day
Coc. Lub — 1 " }
Dts. Hants home 20 drops }
Water — 4 3 }
M. ————— }

Mistur on the Perineum — Tinct. Camethi:

When it continues from Ulcers in the Urethra,
1 gr. of Cal. M. & nocte has cured —

in irritable habits, prepare by Tonics - Bark &
local sores on the penis &c. which are not venereal
D.R. has cured by Arsenic & another in the throat
by Coc. Lub -

Lues is somet. combined with Geth, Gout, Scumy
Arthritism &c -

. Venereal pains cease at night —
. it is somet. counterfeited by Hypochondriacism — the
mind here causes pain in those parts — as
the nose - throat &c —

D.R. has cured it by reason ridicule &c
it is called in London the 'noddle pox' —

There are 2 tribes of Indians on the Mississippi
who have the natural phymosis

Case - Rush

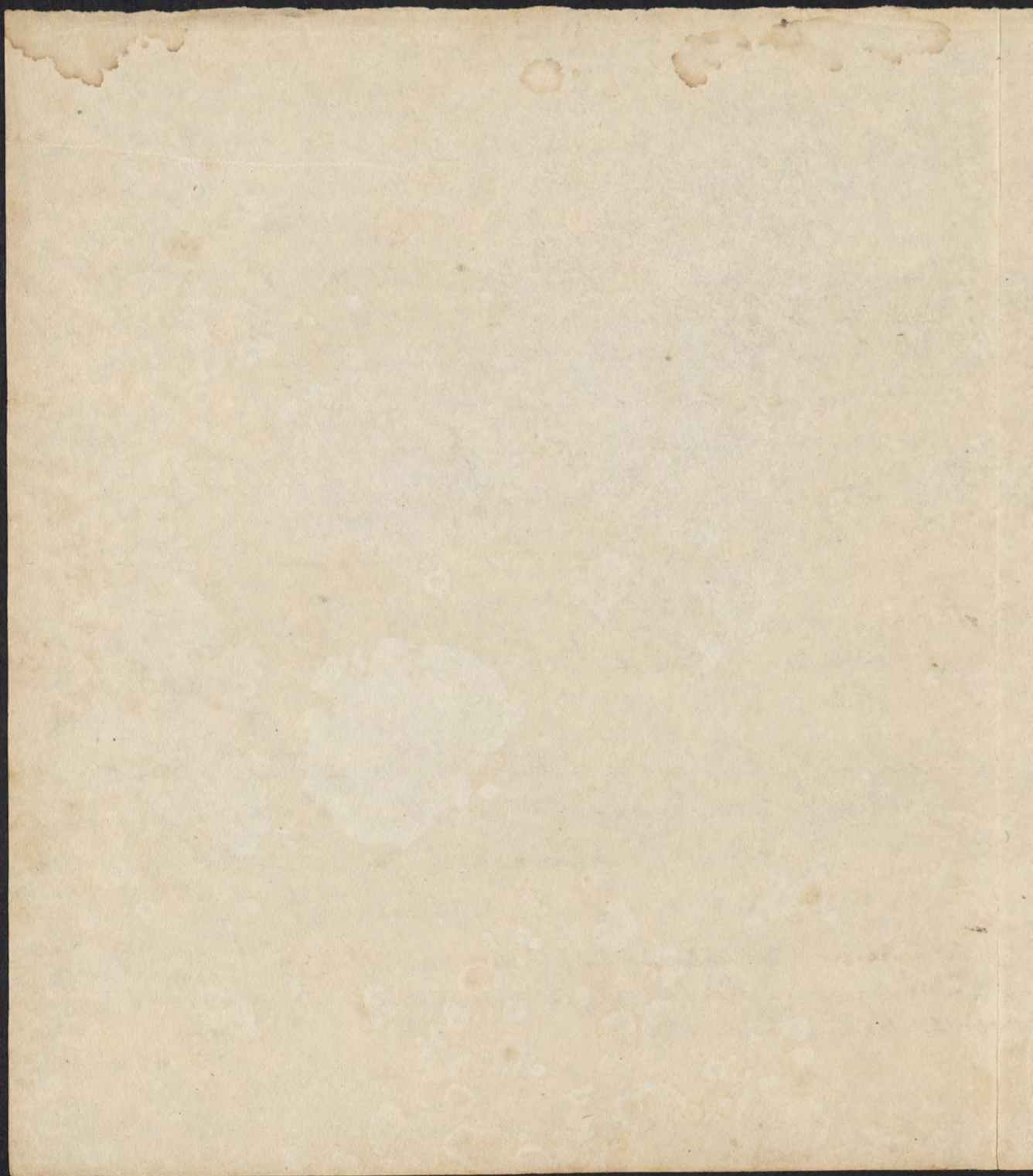
Impotency - White Vitriol $1\frac{1}{2}$ to 2 grs 3t. a day
also Spirits of Turpentine - Sweet Oil & Spice aa
to the perineum and upper part of thighs b.d.
advise the patient also to forget his disease

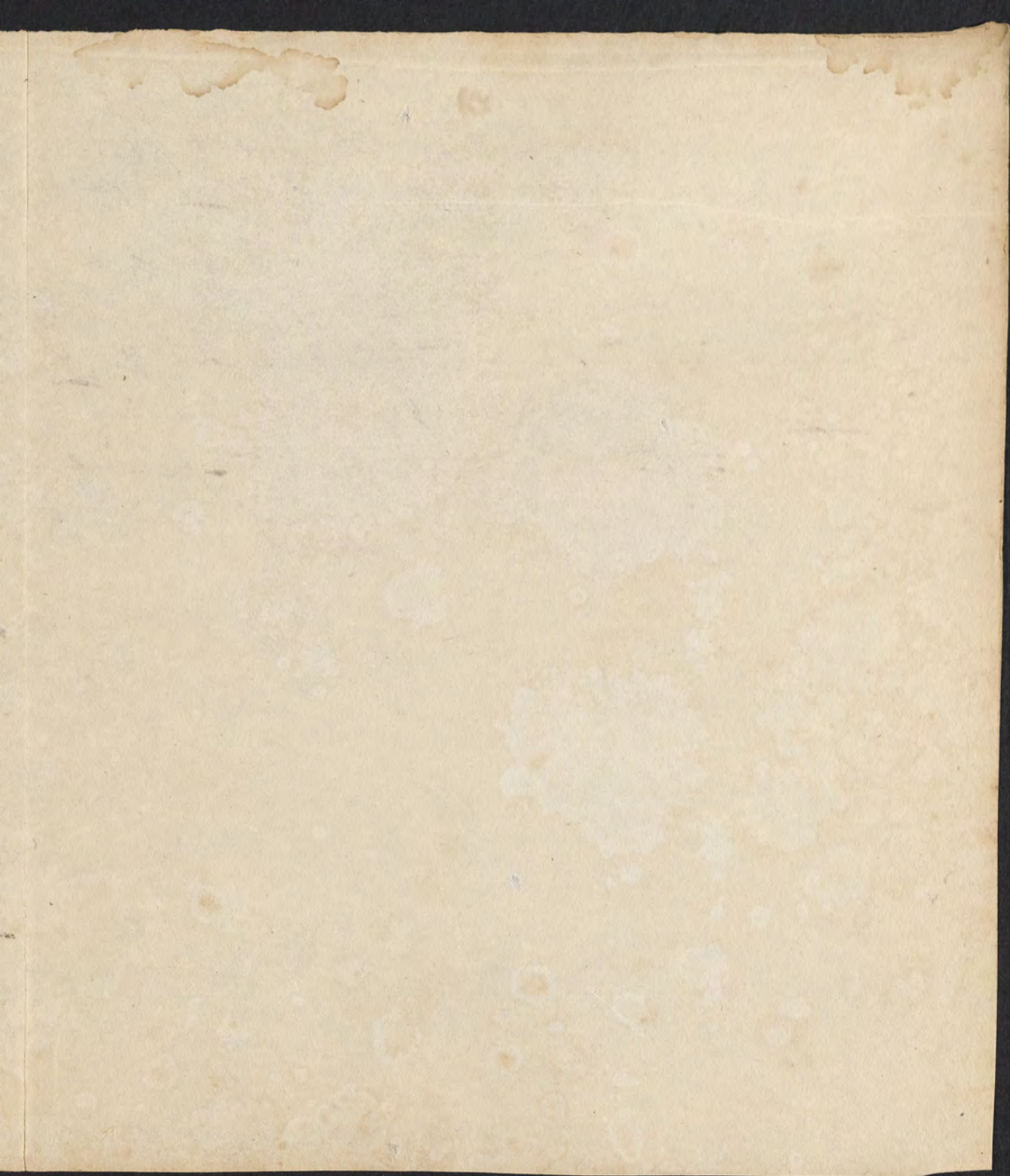
Case - Stillicidium from Prostate Gland with
some impotence - Tinct. Canth. \times to $\times \times$ gtt. 3t. a day
Cort. Peru $\mathfrak{z}\text{ij}$ infusion - take a table spoon full
Pulv. Chalyb. $\mathfrak{z}\text{ss}$ of this at morning - every day -
- also local cold bath - body to be kept open -
& Vol. turbinthinate lin^t. to perin. sup. part of thighs

Impotence - Case - 10 to 40 gtt. tinct. Canth. t.d.
Sweet Oil aa } $\mathfrak{z}\text{ij}$ } infuse it - and bathe the
Spts. Martine aa } perineum &c -
After - $\mathfrak{z}\text{ij}$ -
also cold wat. b.d. to genitals - if all fail in
3 months - then use the Bark & rust of Iron -

Gleet - Case - Port Wine & water - Sac. Sat. S. - as
injections - also Tinct. Canth. at same time
10 to 40 b.d. - if all fail - Cal 1 gr. or $1\frac{1}{2}$ gr
at night for a Salivation

Abstinence of Ven. pleasures - objects & lasciv. books } impotence from
loose belly - chalyb. med. & local cold bath } early venery or
bathe the perineum also } mania -
also for Stillicidium }
conseq. of mania





The Skin & lungs practice J. Supplement at to each other
The mucous memb. which lines the pul. texture
is a mere prolongation of the skin — & there
is the most intimate connexion bet. the lungs &
skin in health & disease —

In the Exanthematic & Cutaneous affections gent
active purging is useful for it determines
the disease to the external parts — purging
on the same principle is purging injurious in
pul. complaints

290. Cancer.

It generally occupies the glands — in Men it most frequently affects the face —

In Women — the breasts & uterus — most dang. on the lips
It seldom affects < 45 years of age — Mr Hall out of 53
affected states but 13 below the age of 50 —

in 20 women Dionis found 15 above 45 —

— recollect the acid nature of fluid in old people —

• The kidneys are never affected. —

Women are the most subject & it is more common
in cold climates —

It is endemic in Lima in So. America and of
the Uterus alone —

Causes — schisms —

• suppressed & artificial dis. of the blood

• repelled eruptions

• irritation by pref. pressing & handling the part

Ben: Mifflin by pressing his forehead to ease pain
had a Cancer there

• neglected sores & phantasy if there be a dread of cancer

• Scrophulous of long continuance

• Cut on the lip by a razor —

• Original matter is lymph — alkaline & of a most
corrosive nature — Cancer is I believe says Dr Rush like
fever can visit in more or less dang. accordg to its grades &
seat & to the predisposition of the parts. —

291.
Cure.

On Muscular parts by Caustic

" Glandular " "juice of Poke root —

also Arsenic & Tartar of Antimony each 2 ℥ —

after a Cancer has ulcerated the Knife is seldom successful
small repeated bleedings — Spasms if great pain & inflammation —

where we have reason to believe there is a cancerous
diathesis — Mild vegetable diet & better if no salt
How w^d fasting do?

• Narcotics — Belladonna — Opium — Hemlock, Sol
• Salivation

• when the cancer ulcerates — the Charcoal poultice
thus R^d — Powd. Charcoal 3 ℥ }
Boiled milk — 4 ℔ }
mixed with oil

• conceal the name from your Patients

• procure cheerful company — division of the mind

Facts connected with the foregoing —

1- Diseases

2. Cutting the Nerves sent to the Stomach, not only prevents digestion but induces morbid effects —
3. Sores of all kinds are much under the influence of the Mind
4. There is pain & this is only in the Nerves
5. Cancer abounds where the Nerves are —
 may we not then infer Cancer to be seated in the Nerves?
 narcotic medicines do great good —
 these facts admitted, what effect from Anapatheta, Cantor and those Antineurotic medicines?

Cutaneous diseases & disorders

Inquire of what disease it has arisen & treat accordingly. —

in debility the decoct. of Eupat. purfoliatum will cure — $\frac{1}{10}$ th of a gr. of Arsenic has done much good says D.R.

• When the excitement is above per cold water may be used
• Salt water — Perfume — eg. Jts of Tan & Hogs Lard
also Undigress — Wax & Sweet Oil — Unguent. Saturninum
Unguent. Citrinum — Cor. Sub. 10 grs Water 4 ℥.

& afterwards the powder of Charcoal ey. might
I have done more good scars D.R. with the 3 last
than with all the rest

• Alkaline Bath —

The Leprosy in So: America is cured by eating Lizards
in consequence of what they eat they are poisonous —
Prickly heat it may be repelled it may be
called an external remittent fever

• Prurigo — warm water — cold do. infus. of Corb. querc.
in itching of the female pudenda V.f. — Leeching —
Blisters near the part —

• itching at the Anus is often the symptom of
Gout & sh. be treated with Caution —

• In the Itch examine carefully whether the patient
be relieved of any complaint by this eruption —
Sulp. dy or with lard — also Cor. Sub. PZ }
Water — 1 pint }

Burns ^{294,} —

Turpentine — Ardent Spirits — Cotton — They obviate
the debility by exciting the part — see Dr Rush's
theory of the cure of burns by these remedies —
but after inflammation comes on these all do
harm — Then we must use cold air — cold water
lead water — mild creaser —

Diseases of the Genital Organs —

Ist of the Male & —

— 1st Impotence — this is either 1st congenial — or from 2nd early venery — from 3rd Onanism — & from 4th Hypochondriacism
 remedies for the 2nd & 3rd head — the absence of venereal pleasures,
 objects lascivious books — restraining the imagination &c.
 • a distressing Melicidium somet. takes place from the
prostate glands — generally the effects of Onanism —
 for this I advise a loose belly — so that thereby no
 straining should occur — chalybeate medicines &
 the local cold bath

• Seminal weakness — this occurs genly. in the night
 and with lascivious dreams & genly an erection —

see Dr. Tissot on this subject —
 remedies — 1st a laxity of the bowels

2. Vegetable diet

3. Sleeping on the side — never on the back —
 tight drawers so as to bind down the penis —

4. Opium at bed time so as to produce profound sleep

5. Local cold bath

6. Tinct. Cantharid.

7. Salivation — Dr. R. knew this effect a cure where
 nothing else would

8. Abstinence — I always advise it says Dr. R. —

9. tying a ligature round the penis when ff to bed

10. Influence of moral religious books — avoid las-
 civious ideas, conversation &c.

1. The first of these is the fact that the
 of the first of these is the fact that the

2. The second of these is the fact that the
 of the second of these is the fact that the
 of the second of these is the fact that the

3. The third of these is the fact that the
 of the third of these is the fact that the
 of the third of these is the fact that the

4. The fourth of these is the fact that the
 of the fourth of these is the fact that the
 of the fourth of these is the fact that the

5. The fifth of these is the fact that the
 of the fifth of these is the fact that the
 of the fifth of these is the fact that the

6. The sixth of these is the fact that the
 of the sixth of these is the fact that the
 of the sixth of these is the fact that the

7. The seventh of these is the fact that the
 of the seventh of these is the fact that the
 of the seventh of these is the fact that the

¹¹
1. Furor uterinus — remedies — venerection, purges, low diet — a separation from the sight of man —

²
2. Barrenness — from obstructed menses — Cancer of Uterus, Schiurus of Uterus distension of the rectum except in women I am excessive desirous of having children — except of fat also

Dr. Rush knew an instance of a woman who from a vehement desire to have children was barren for 12 years and became pregnant the moment she ceased to wish for them —

remedies when from general weakness — tonics, sea bathing cold bath — long journeys

when from excess or deficiency of sensibility or irritability

¹¹
1. a fit of sickness — instances of this

2 change of climate — many instances

3 What of local stimulus to the Vagina? These are thus successfully managed —

Obstruction of the Menses —

by Suppression and retention

Suppression is from acute & chronic causes —

The chronic is from gen. or local debility or both —
 remedies — when the system is above the menstrual point
bleeding — aloetic purges — low diet & when the system is
 bot. down to the mens. point, tonics —

The obstruction is the effect not the cause of gen. debility

• examine the pulse in every visit you pay —
 obstructions cause head ache, pain in the bones nausea &c.

Retention — when from debility in the uterine vessels
tonics, chalyb. cordial diet & exercise

for suffocated excitement, bleeding, purging &c.

• if from an impurated hymen — operation —

• There somet. comes Milk in the breasts of unmarried
 women, which genly. arises from a suppression of menses. Hip.

of Dysmenorrhoea - or difficult menstruation
called an uterine colic by Dr. Fagot

There is great pain in the region of the uterus which
extends to the whole of the abdomen —
it is the effect of an excessive, feeble, or suppurated excite-
ment in the vessels of the womb —
remedies, occasional bleedings - purges - low diet - if
plethoric: — if feeble — tonics —
— attend to the Pulse. —

Leucorrhoea or Whites affects all ages & habits —
it is a discharge from the mucous gland of the Vagina
it may be called a " Coryza " of the Vagina —
it ceases during menstruation - Hip - says 'tis a slow
excretion from the Uterus —
it arises from gen. & local debility — if debility be partial
small bleedings - purges &c — if general - Tonics, Bark,
Chalyb. - if all will not do - a Salivation
local remedies - Alum injections - Bark do -

Cor. Sub 1 gr	} a syringe full into the Vagina twice a day — Dr. Rush has found much advantage from this <u>quack remedy</u>
Hartshorne 20 drops	
Inf. Lead ʒj	
Water 4 or 5 ʒ	

307.
During Pregnancy

Sickness of Stomach, arises from its sympathy with the uterus. the absence of it is somel. attended with abortion —
remedies, gentle emetics — laudanum — chewing
eating gingernuts — lying in bed — & above all fresh air &
exercise —

- . Cramp & convulsions cede to profuse bleedings
- . Ontigo & head ache — to bleedings, purges — head kept high
- . Swelled legs & feet — bleeding — purges — low diet
- . Avoid pressure of the Breast & nipples — the last ab?
be frequently pulled forward in the few last months —
it prepares the lactiferous vessels for pouring out their milk

Parturition —

for pains prior to delivery

1. Bleeding — 2. gentle laxatives — the Turkish women
for the few last months take a little sweet oil just before
bedtime — it keeps them laxative
3. Abstemious diet & constant exercise. thus the Indian Women
during the paroxysms — remedies accord. to the state of the system
Bleeding from 20 to 100 ℥. for this we are indebted to D. Dewees
the late Dr. Shippen said of this discovery that it marked
an era in the science of Medicine

Diseases following Parturition —

Milk fever, wulgo, — Rest, gentle laxatives

- soe nipples — Cold water, land & water — Salt & water —
Tindling's balsam — Sweet oil —
- Sweeled legs — wulgo — milk leg — it is the effect of a
predisposition to Gout or Rheumatism by pressure of the
uterus on the inferior vessels —
remedies as for those affections
- Mania often follows parturition from the sudden
collapse of the Brain in consequence of the abstraction
and this often sudden, of the previous powerful stimulus
- soe breasts — general & local bleedings — if these
fail promote a suppuration — also boil bread
in $\frac{1}{2}$ a pint of strong beer evaporate it
add 1 gill of lye & 1 of sweet oil — this makes the lye
poultice is a powerful discutient
- flabby abdomen — band for 5 or 6 weeks

303,
Purpural Fever?

The true cause I think to be says D. Rush
An inflammation of the Peritonæum — called in
France Peritonitis —

. it is not a specific fever but belongs to the unity of fever
. the atmosphere has a powerful influence on it
its great danger depends nevertheless on the great

symptoms — Thirst, nausea, vomiting, pain of head
restlessness, — often comes on with torpor of the parts
cold feet, pain in the lower part of the abdomen
scapula — bladder, rectum, liver, spleen, —

. the patient lies on her back —

. vomit is green, yellow, or dark colour

. bowels generally constive — often a dysuria —

. milk deficient or plentiful or natural

. a troublesome cough

. Pulse small, frequent, quick &

. tongue moist — then brown black — teeth increased
swelling legs — delirium — eruptions —

Duration of the disease from 24 hours to 11, 15,
20 days —

Preventives — gentle exercise during the whole time of gestation
bowels kept open, fresh air & —

Remedies - Bleeding

304-

find out the habit of your patient - The grade of the disease - attend to the season of the year - the reigning epidemic & suit of remedies -

restore the milk if suppressed
 for pain in the abdomen - indicated by chills and
 hectic fever - put a seton on the belly - Dr

306 - Diseases of Children

I believe their diseases are more easily known and cured than those of grown people - here followed his reasons —

- for the belly ache - Magnesia - Alkaline Salts - Laud.
 R - Lime Water 2 $\frac{3}{4}$ } give a tea spoonful 3 T.
 Opaeac 3 grs } a day & animal diet in
 Laud 6 drops } the nurse —
 m —————

for costiveness - Pap of Corn Meal - Syrup of
 Rhubarb - injections

Diseases of dentition - Bleeding, purges, cool air,
 cutting the gums - & Laud. if there be danger of
 convulsions -

- never repel eruptions without letting purges succeed
- when cannot make water - circumcision —
- paraphymosis - cold water, Lead water, gentle
 compression of the Laud —
- a fall on the head sh never be considered hijting
prevent its bad effects by bleeding purging &
it is more to be apprehended if no inflammation
or discoloration supervene

for Chol. Infantum see Inguinis

D. R. knew it once and in a black vomit

Bleeding is an useful cur in the Chol. of Adults —

307.

Worms in the alimentary Canal —
The round - tania & Ascarides —

The round exists necessarily for consuming the excess of food Children devour —

remedies 20 to 30 grs. of Common Salt with 5 to 10 of filings or 10 to 20 of rust w/ morning fasting by
adults R - Common Salt $\mathfrak{z}\text{ij}$
Iron filings — $\mathfrak{z}\text{i}$
or $\frac{1}{2}$ \mathfrak{z} of Rubigo — M.

make into 12 doses - take 1 every morning fasting
this was a favourite warm powder of D. Rush —

• Drink a pint of cold water every morning fasting
it kills them - a purge sh^d then be given to carry
them off —

• Cal. & Jal. is always safe & proper —

So is Pink root when the Brain is not affected
the Tenia is an interloper in the bowels

Iron & Tin - from 2 \mathfrak{z} to 1 \mathfrak{z} of each may be
given daily —

Have given says D.R. large doses of rust &
filings with great success —

for Ascarides - inject Salt & water - & infusion of Tobac

Means of lessening the pain of dying

'Tis an important part of the duty of a Physician —
but to the proposition of Lord Bacon "Whether in cases
which we consider desperate no recovery to be hoped for
we should be authorized to put our patient out of
the world" I answer No

1. Bleeding // In an excited state //

2. Abstinence lessens pain in the paroxysms of diseases
3. Blisters relieve by exciting pain in an external part
they also concentrate fugitive pain which prevents the
patient's sleeping —

2 In a reduced state

1. Opium — its effects extend no less to the mind than
the body — 'tis a poisonous article —
2. Cordial drinks & Aliments —
3. Morbid appetite should be indulged with savory
food —
4. Warm bath acts like opium but in an inf. degree
5. Application of sweet oil over the whole body
6. frictions with the hand — rub-rub — was the cry of L. Nelson
7. Music inducing pleasant associations
8. Great Thirst somewhat attended — it sh^d be always
gratified by small draughts —
"Drink drink" was another earnest cry of L. Nelson
9. persons should avoid standing near ^{the patient} they phlogisticate
the air — "fan, fan" was another cry of L. Nelson —

9. place them on their backs
10. for painful coldness of the hands & feet apply warm flannels & bricks -
11. the near relations should not be seen - this increases pain - it also creates an attachment to life

Man is naturally a timid animal - we must not desert him in the hour of death - Louis XIV surrounded by his Courtiers & friends said "I did not think it so easy to die" -
 Voltaire's remark

Criminals we see this in them the great concourse stimulating them & giving them courage -

The hope of a recovery sh. never be suddenly torn from a patient & the opinion of a Physician sh. be cautiously given I never to the Patient with it is demanded -

• Dying persons sh. be supported by the society of a clergyman - see Goldsmith's "Deserted Village" & "Beside the Bed" - Dr. Rush has seen an unexpected recovery from this cordial -

• Trance - persons often retain their hearing for some minutes after death -

• avoid noise & conversations - these will apply

312 -
only where there is no hope of recovery —

Finis

After hearing the Lectures on the Unity of Disease
the celebrated Briskley pronounced D. Rush
the Sir Isaac Newton of Medicine —

Aphorism of Celsus

Nothing is more foolish than to think that a man has been so in his life time, as he is found when he is dying or already dead —

Explanation by Sprengell —

This has been the foolery of a great many who upon dissecting a corpse took the part that was most affected, to have been the cause of the person's death, when it was only a consequence, — But we ought to observe that while a man is racked to death by a disease there may happen strange alterations both of solids and liquids —

Thus some have ascribed a dropsy to the liver as the cause of it — others to the brain — others to the stomach others again to the mesenteric spleen, kidneys &c — because they saw some one of these parts mostly affected by the incumbent water — Thus some have concluded that our Asthma proceeded from the water they had found in the ventricles of the ~~breast~~ breast or Abdomen —

Aphorism XXII

Every thing that is to assist the body, either takes away or adds — withdraws or restrains — refrigerates or heats — hardens or mollifies some matter or other. — See page 71 —

"Experience without reason is deceitful, but reason not confirmed by experience is insignificant. But nothing is more conjectural in the whole art of physick than the true quantity of every remedy — according to the quality of the disease in every particular Subject. —

Spengell on XI Aphorism
of Celsus

"Diseases created by abstinence are more dangerous than those caused by repletion —

"Aphorism VIth. Rest and abstinence are the best of all remedies; and abstinence alone comes without any danger

Ap. VII — "Aesclepiades says that the office of a physician is to cure safely, speedily and pleasantly" &c —

"Causes and constitutions are so various that we lose ourselves somewhat in those accidents of which we seem to have the greatest certainty & experience" &c

Spengell's Aphorism of Ap. IV

Sect. XVII. Aphorism 1 — ⁷⁷ Venereal Disease —

"The French Pox
owes its origin merely to women, whose parts within
the Vagina have been so inflamed & fretted by too frequent
coitions with men, that most of them (having no leisure
given them to heal) exulcerate and inflame —
And this being in a part most inclinable to putre-
faction, hence in these ulcers there is engendered a most
subtil, condensing and putrid matter which easily infects
the next companion and so this putrid matter is
conveyed from women to men & from men to women
ad infinitum" —

Hippocrates on Epidemical diseases

The knowledge of disease is to be learnt from the common nature of all things & from the nature of every Individual — from the disease — the patient, the things administered & the person that administers them — For the case becomes more easy or difficult accordingly — We are to consider likewise the whole person in general & the particular state of the weather and of every country — the customs, diet, employment, age, conformation, manners, taciturnity, imagination, sleep — watching, and dreams — and how far veils — emotions, itching, iteas are concerned & what the paroxysms are; what the evacuations by Stool, urine, spitting, vomiting, what changes may happen from one disease to another & the separations that end in life or Death —

Hoarseness, shivering, coughs, sneezing, sighing, heaving, belching, flatulencies (secret & audible) Hemorrhoids & Hemorrhoids are also to be considered together with their respective consequences — Page 67 of Clifton's Hippocrates —

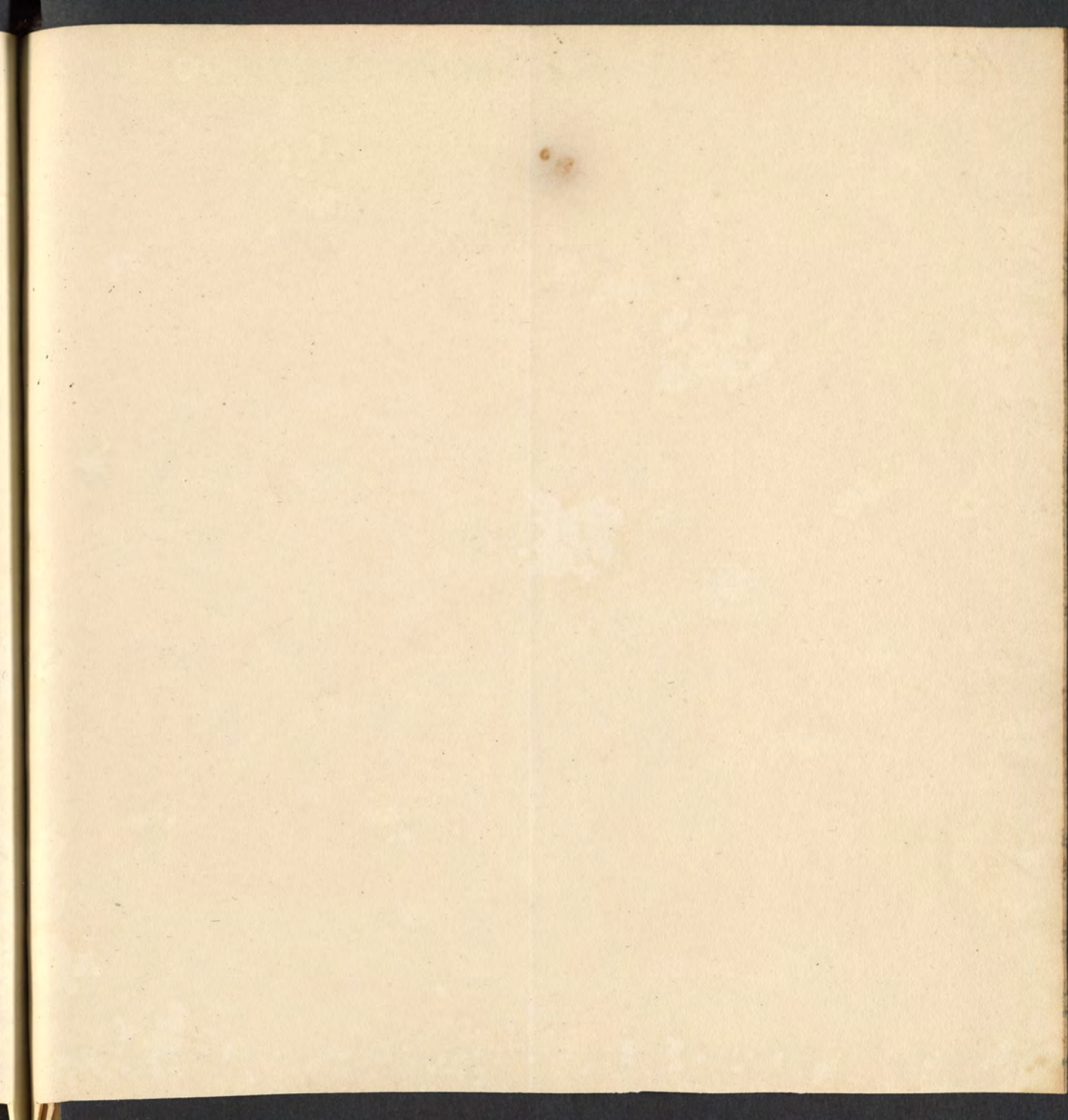
Hippocrates speaking of one of his Epidemical cases says "his drink occasioned as it passed a sound about the Breast & Stomach, which was as bad a sign as could be: & while he was saying that something wanted to pass down and he fixed his eyes & in a short time expired" —

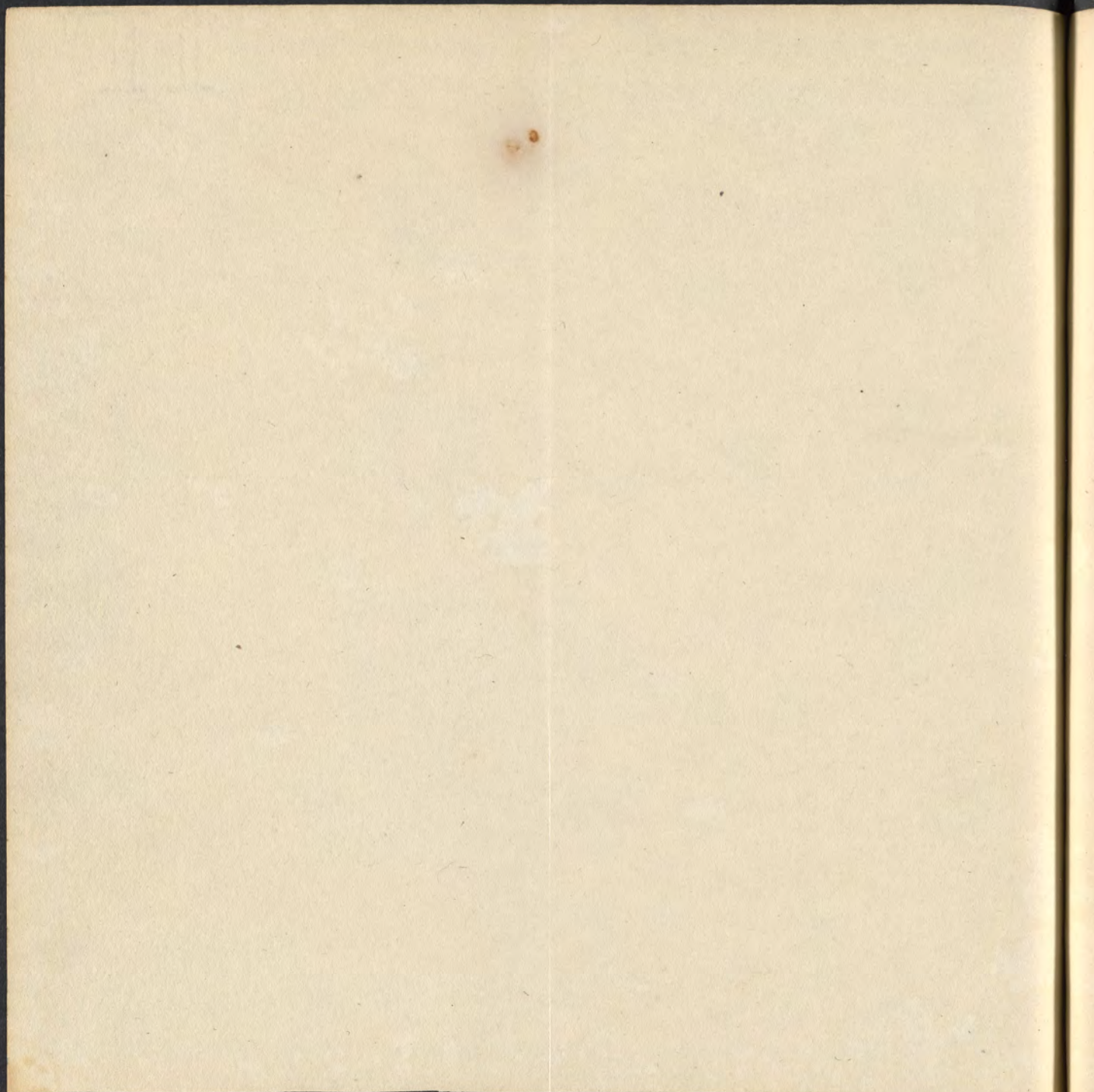
Hippocrates on Epidemical diseases.

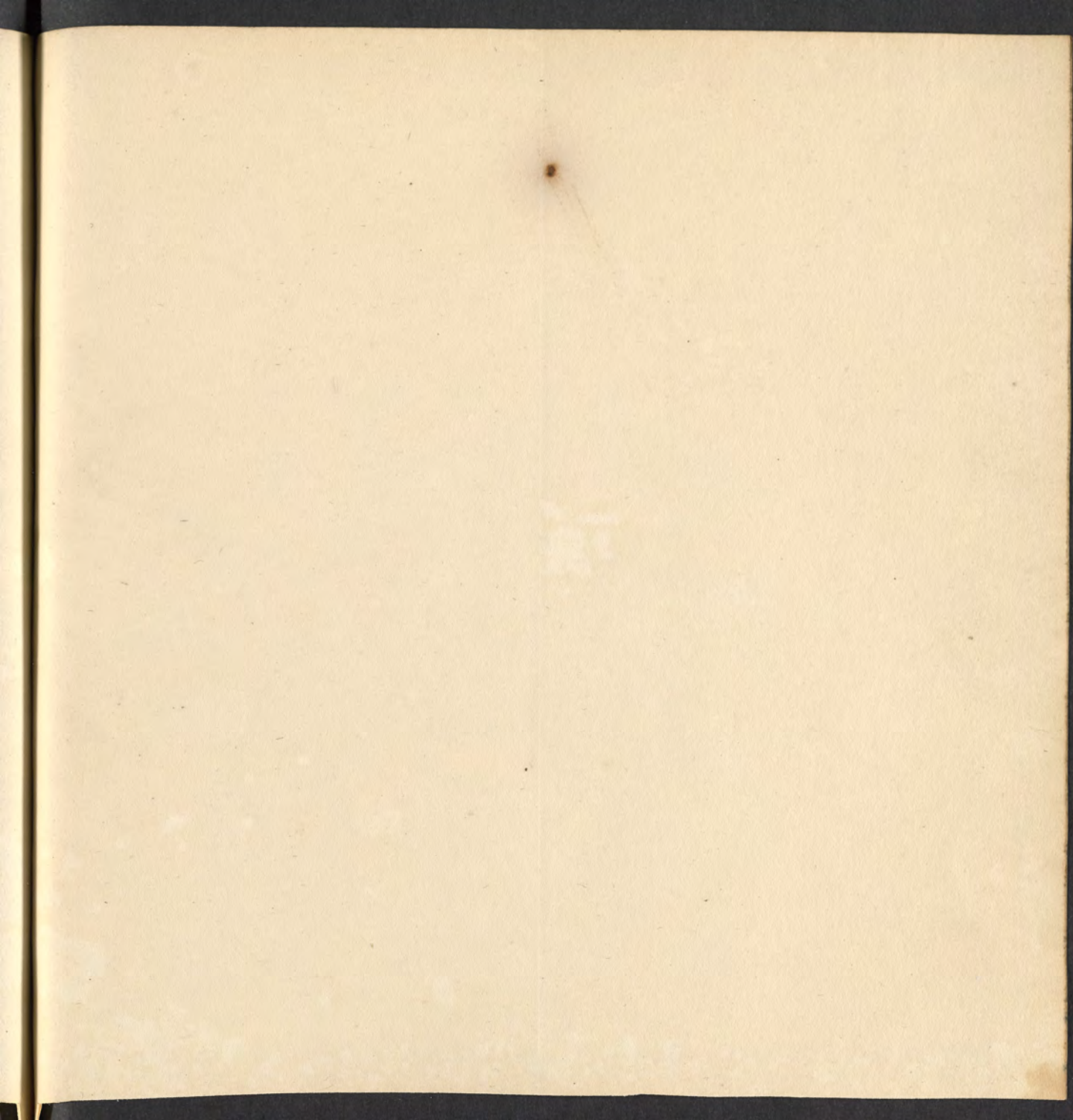
"The only beneficial thing and the greatest of the signs then existing and what saved many in the greatest extremity was the Strangury —

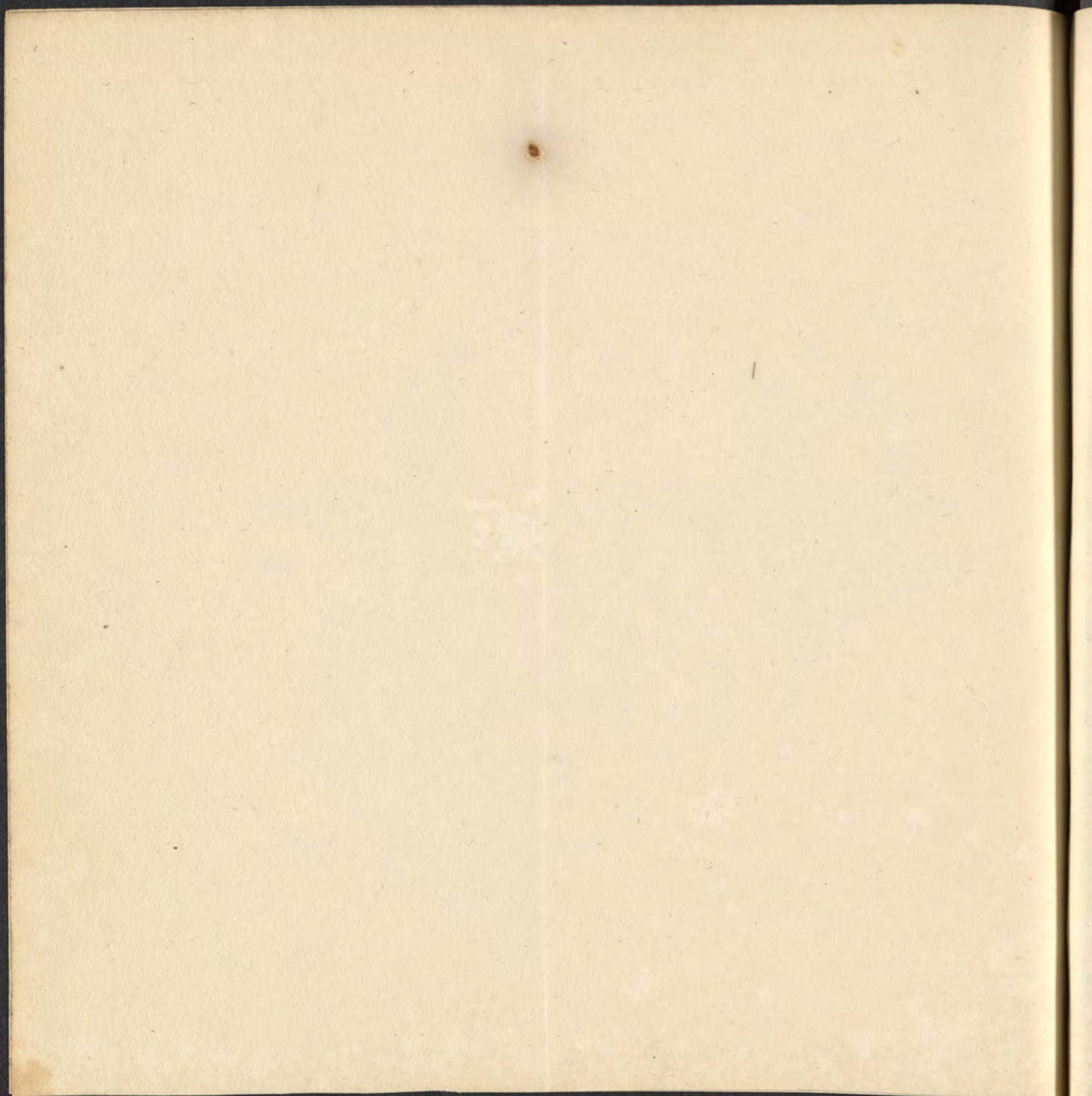
For this way the disease spent itself. It was a frequent complaint especially among those tender patients as well as among those who were not obliged to lie by their illness & those who were.

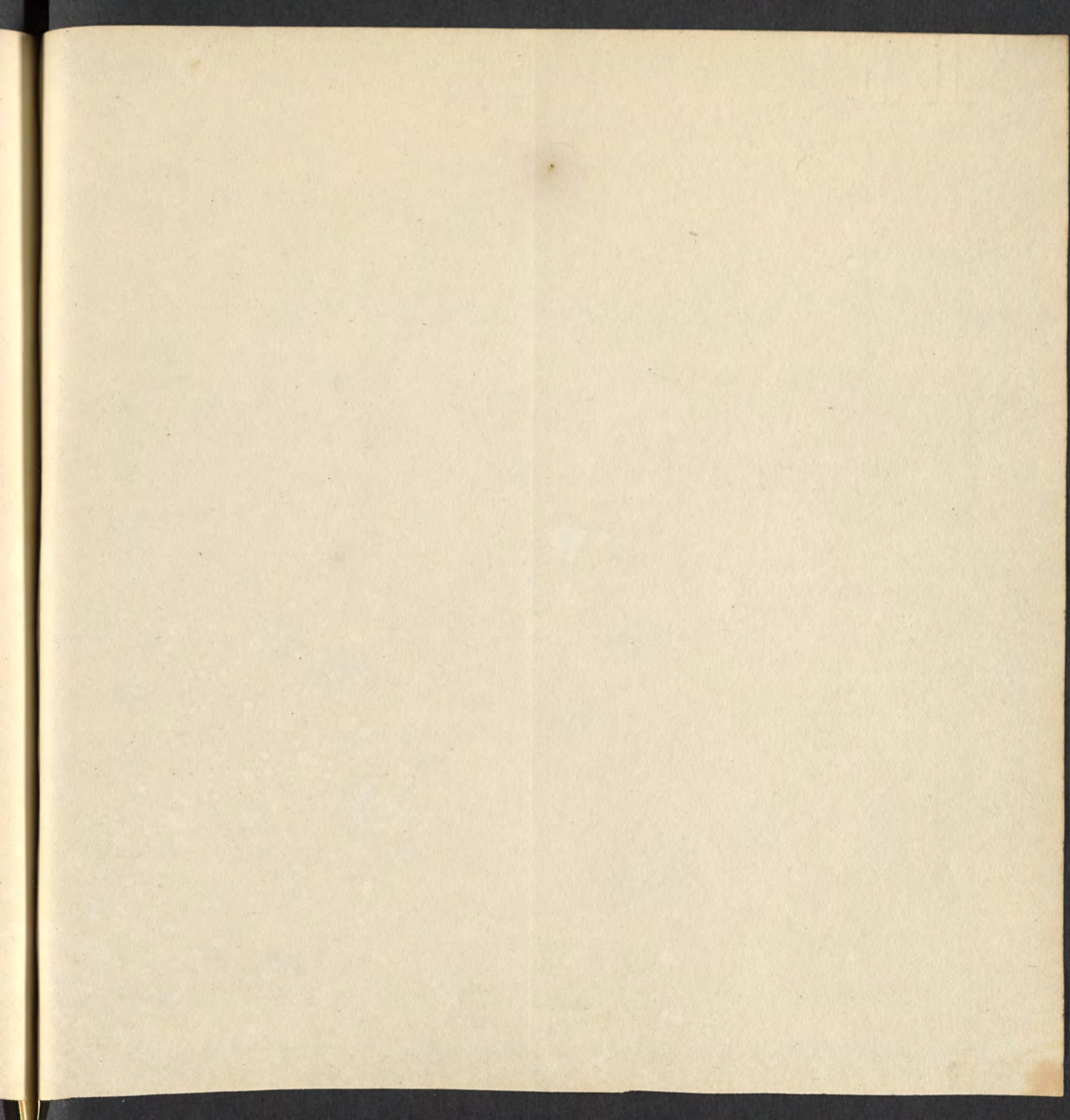
This proved a speedy and great change throughout — For if the belly was affected with ill conditioned Fluxes, they stopped — food in general became agreeable to them & the Fever grew mild after this crisis — But the Strangury complaints were lasting and painful; and the Urine copious, thick, red, viscid & partly purulent, not without pain — All these rec'd to a man as far as I know"



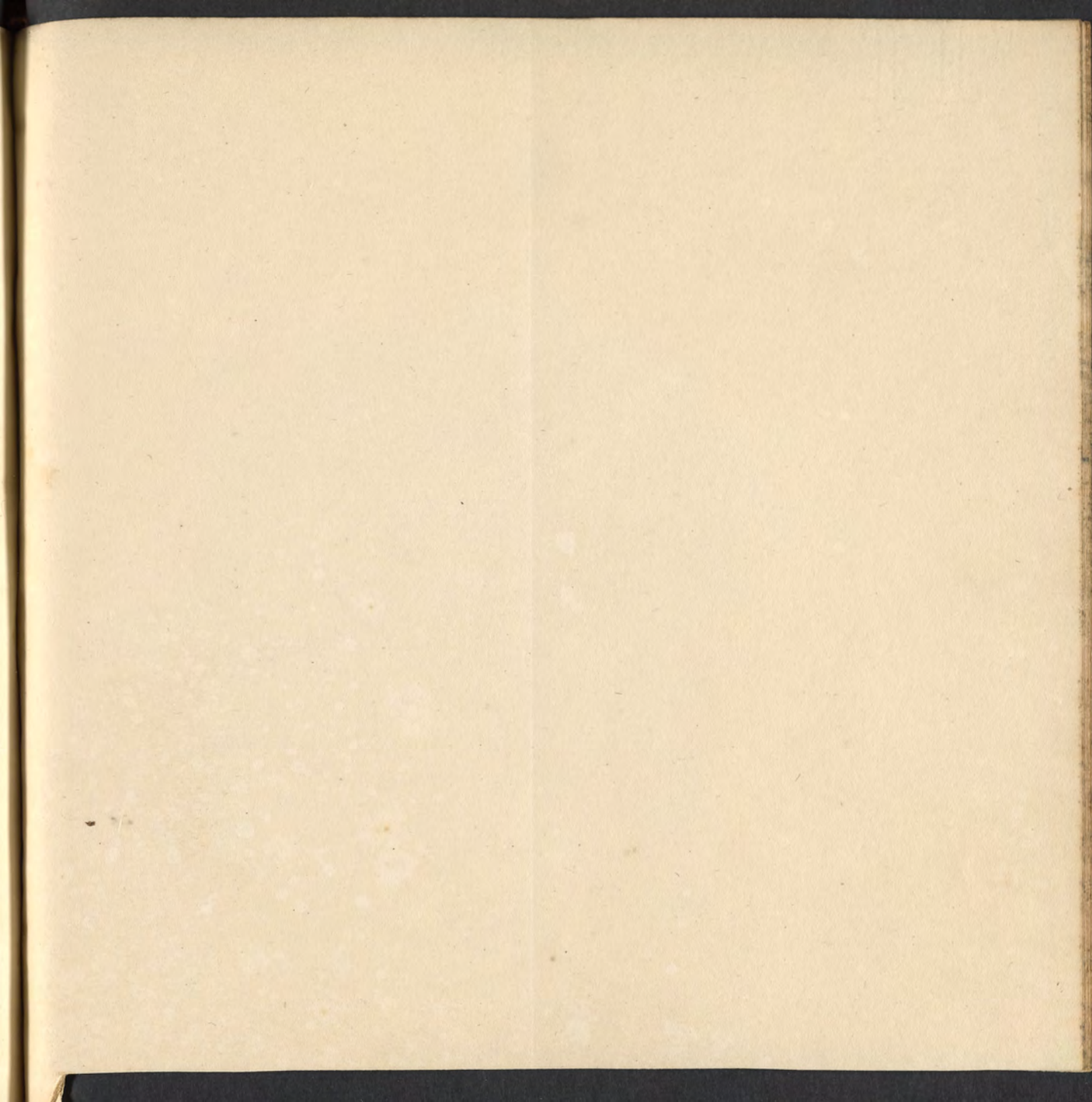


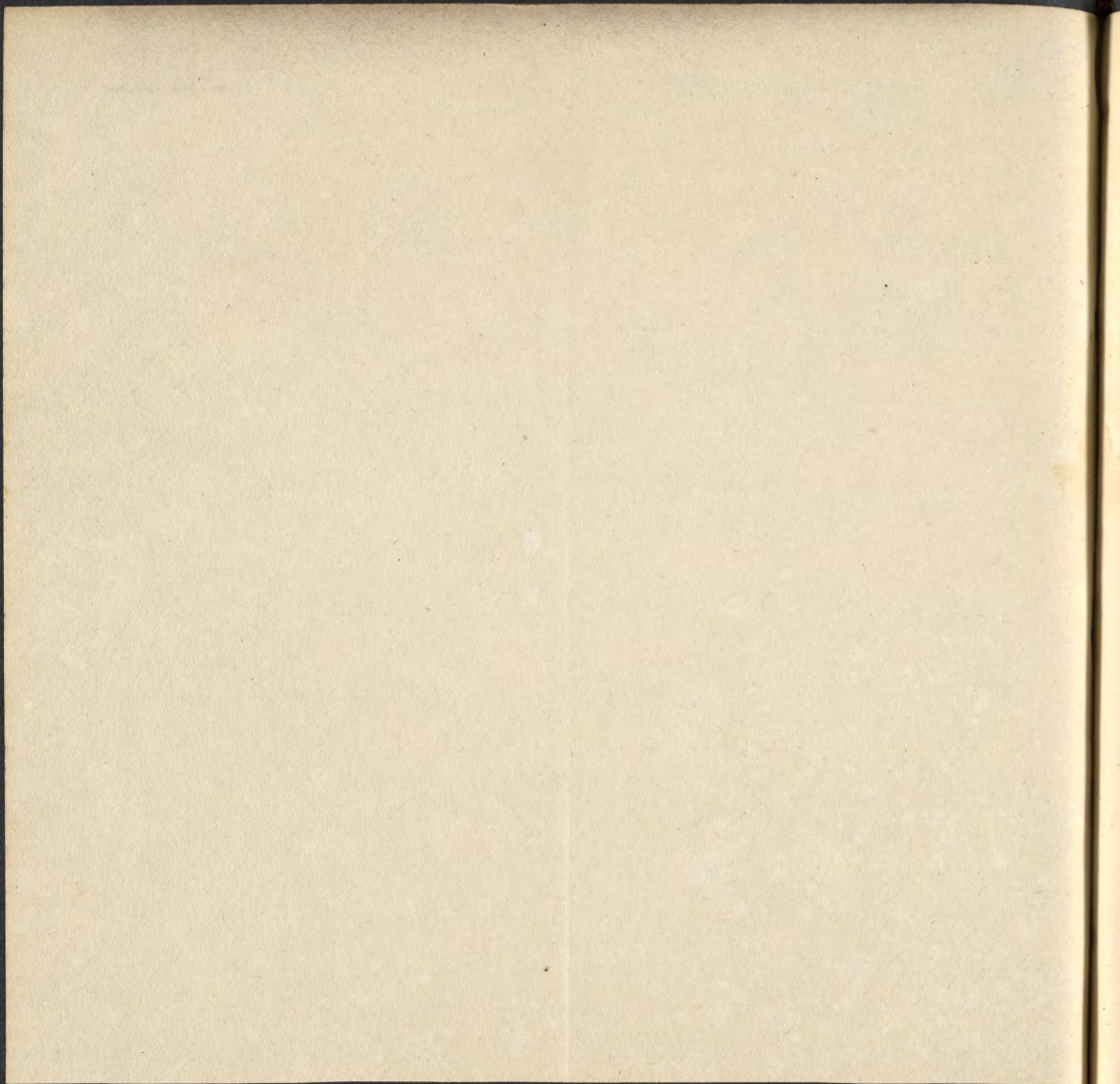


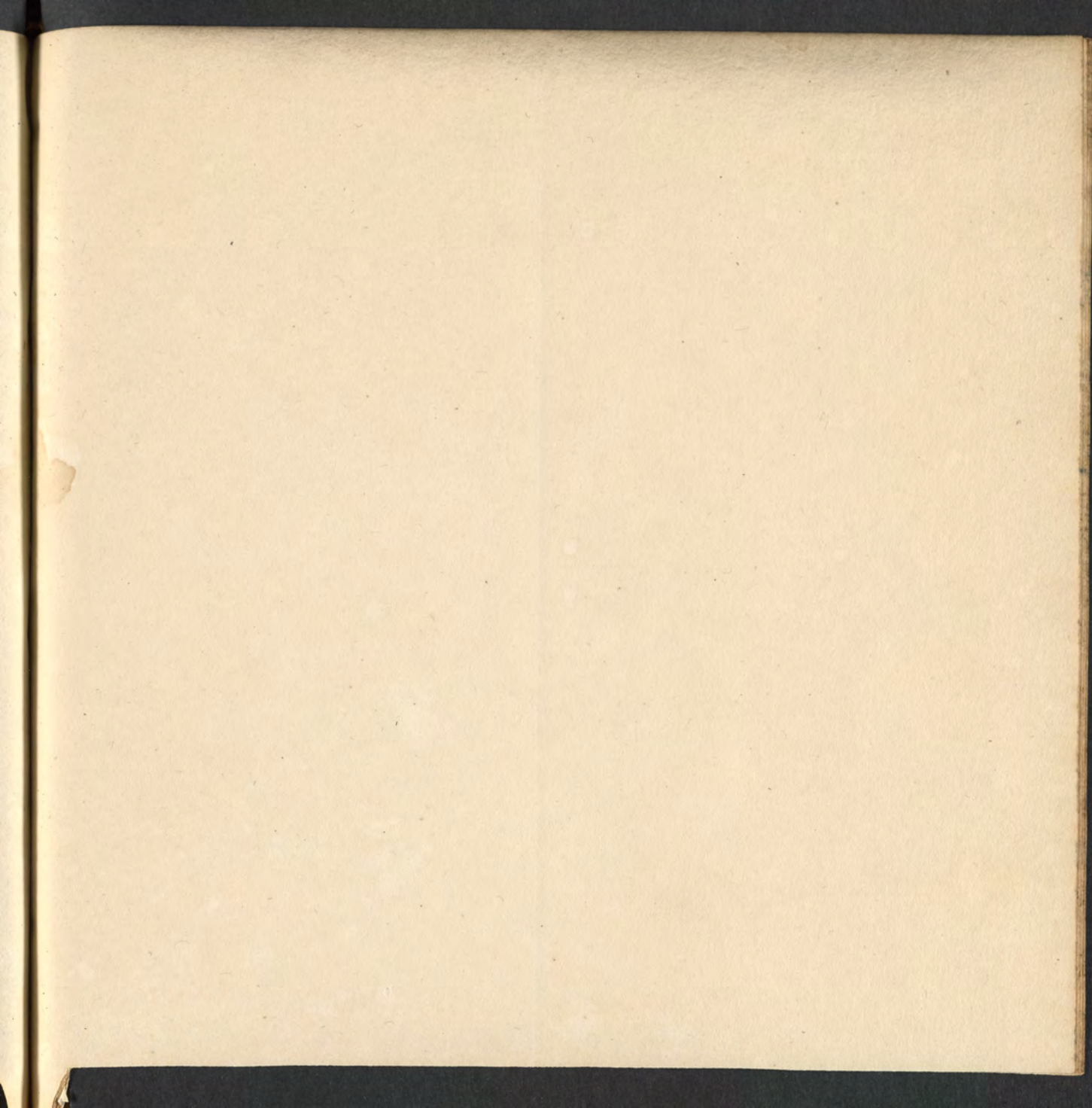




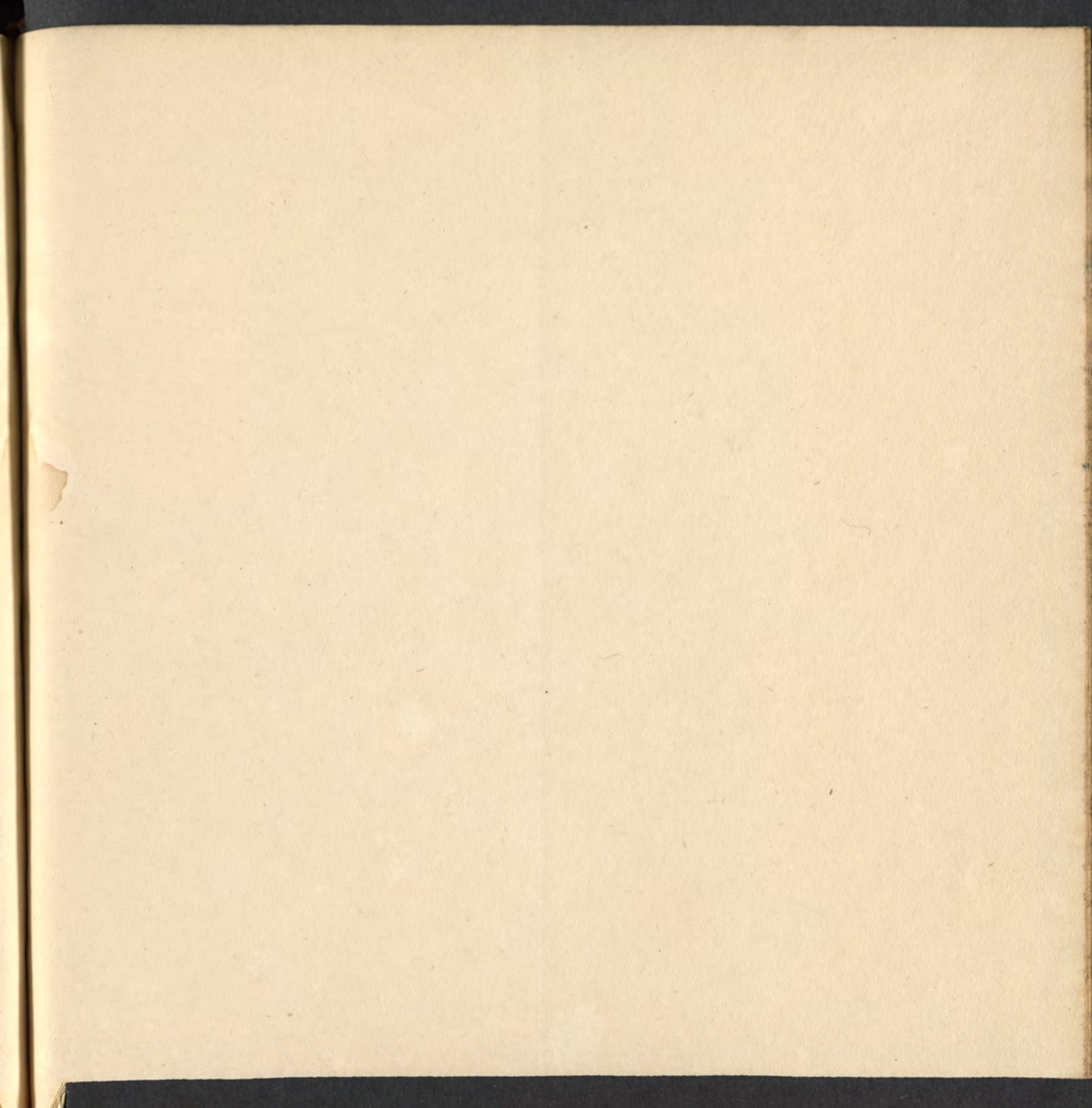


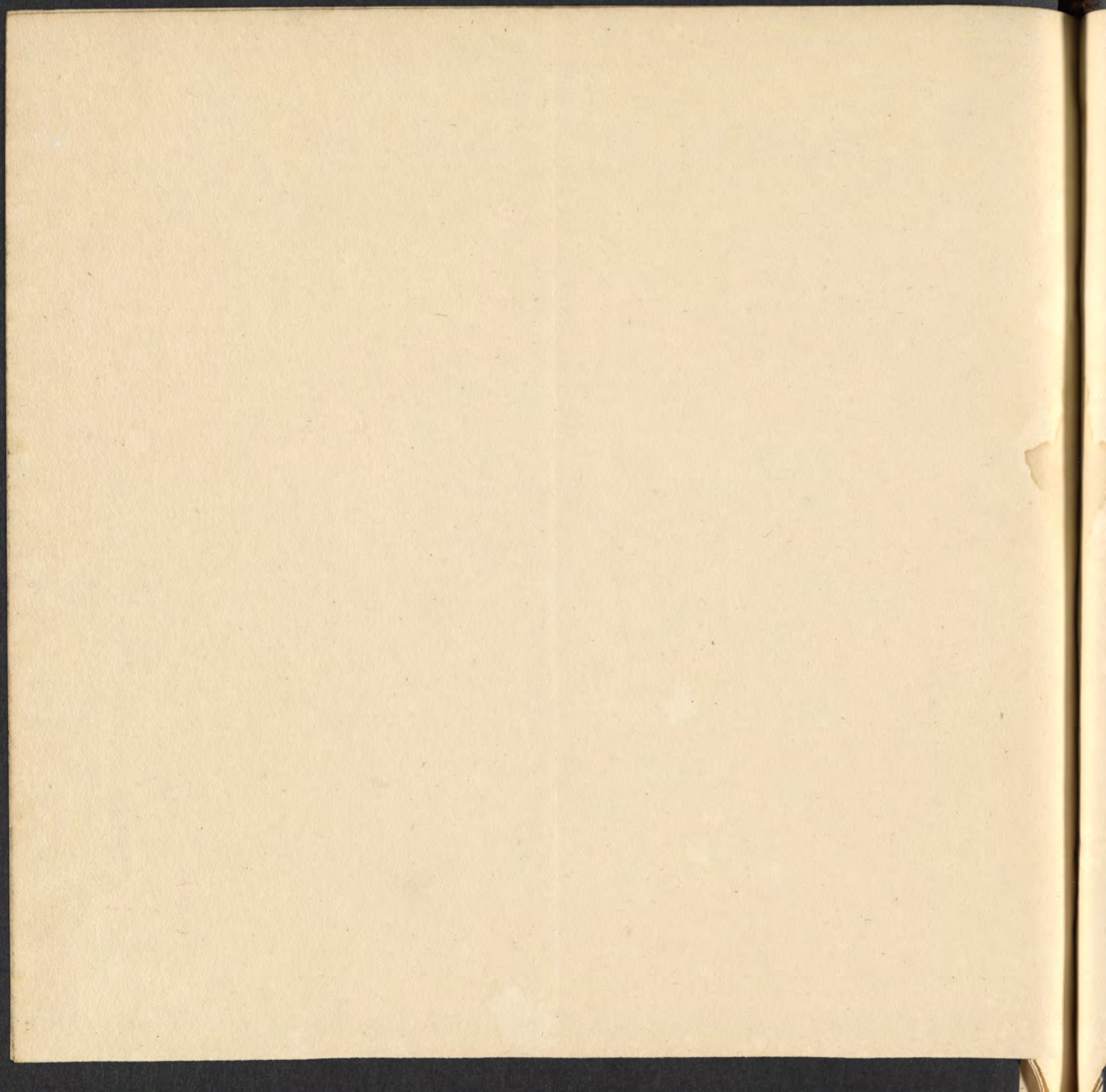


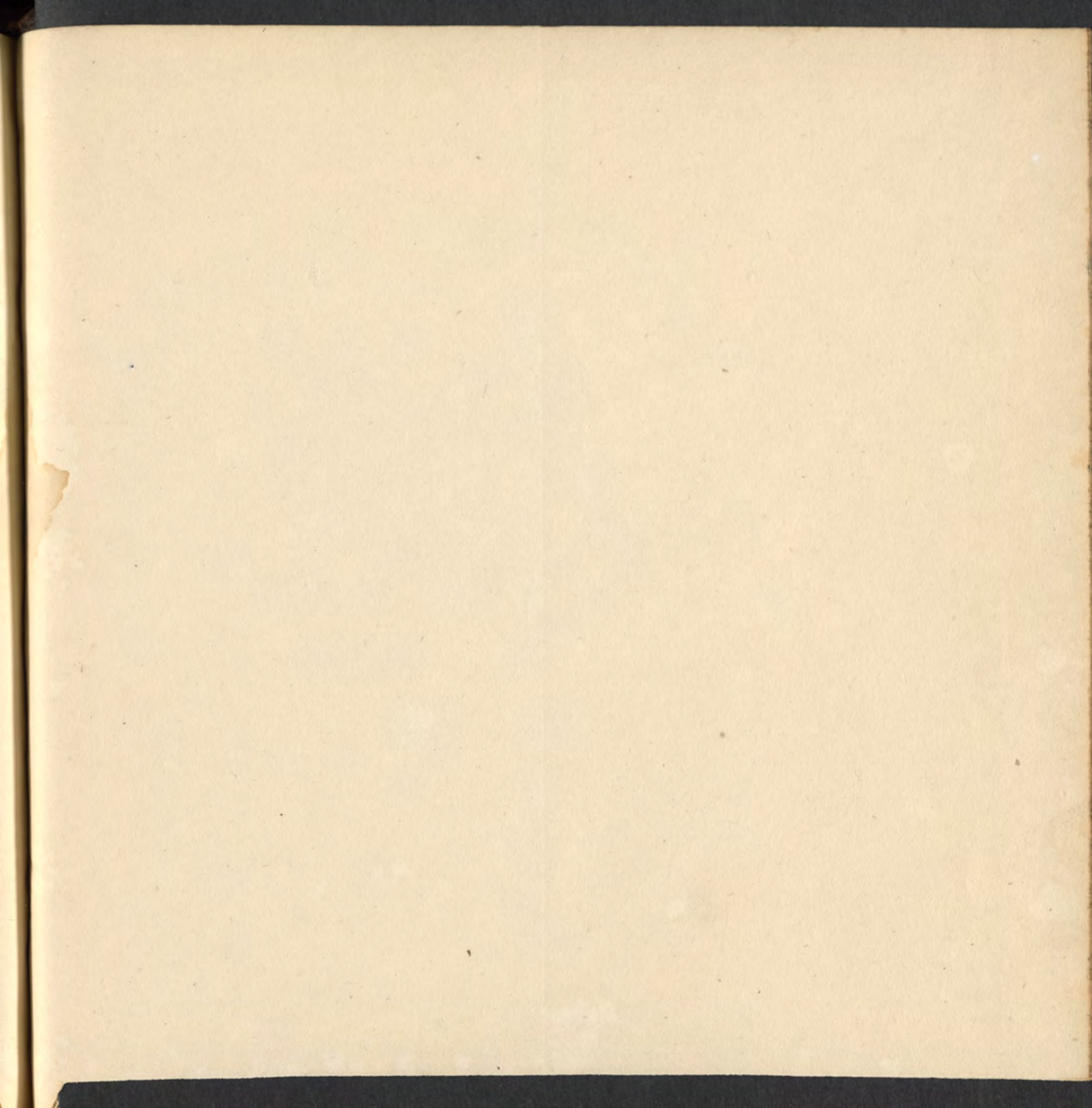


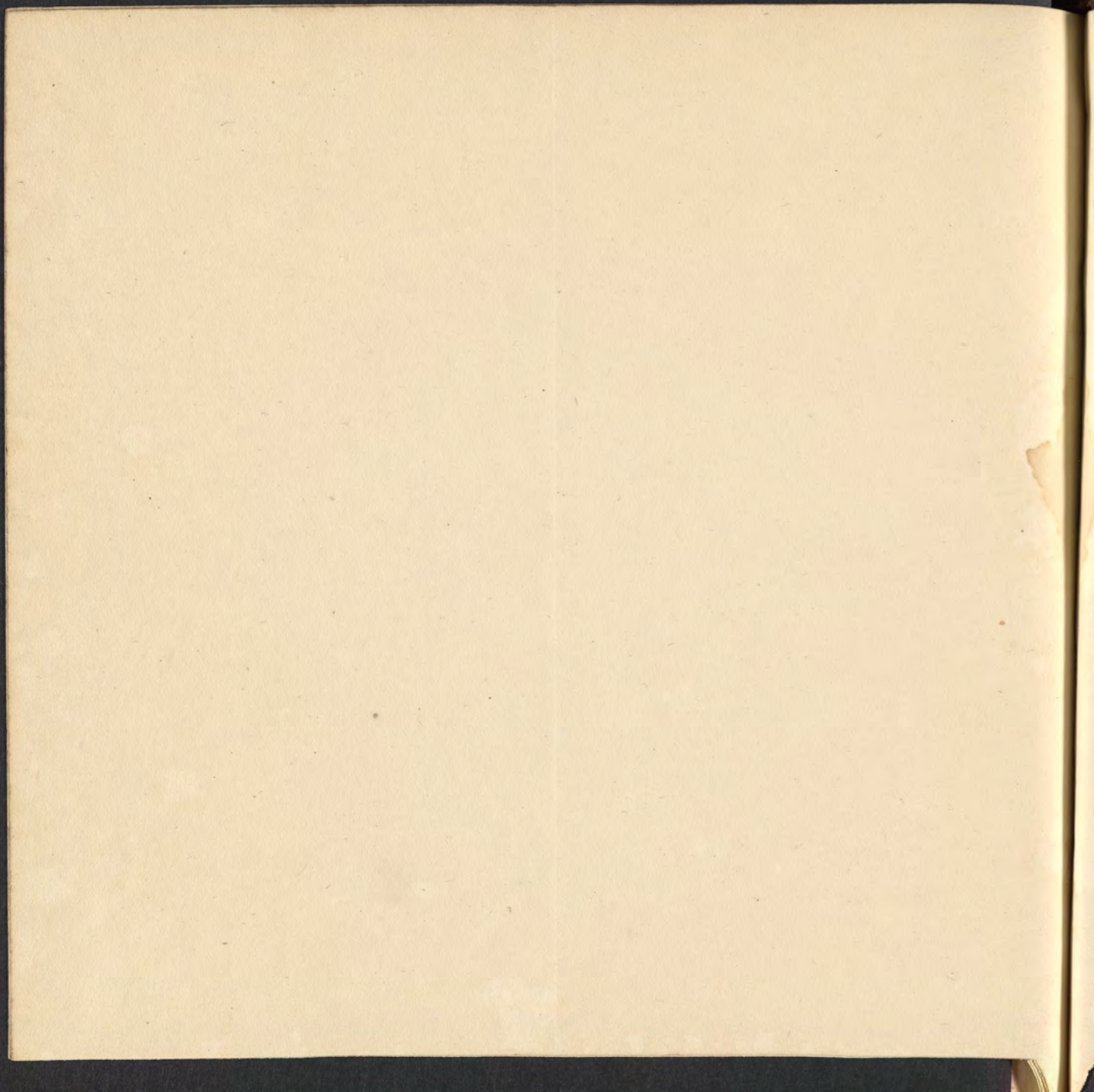


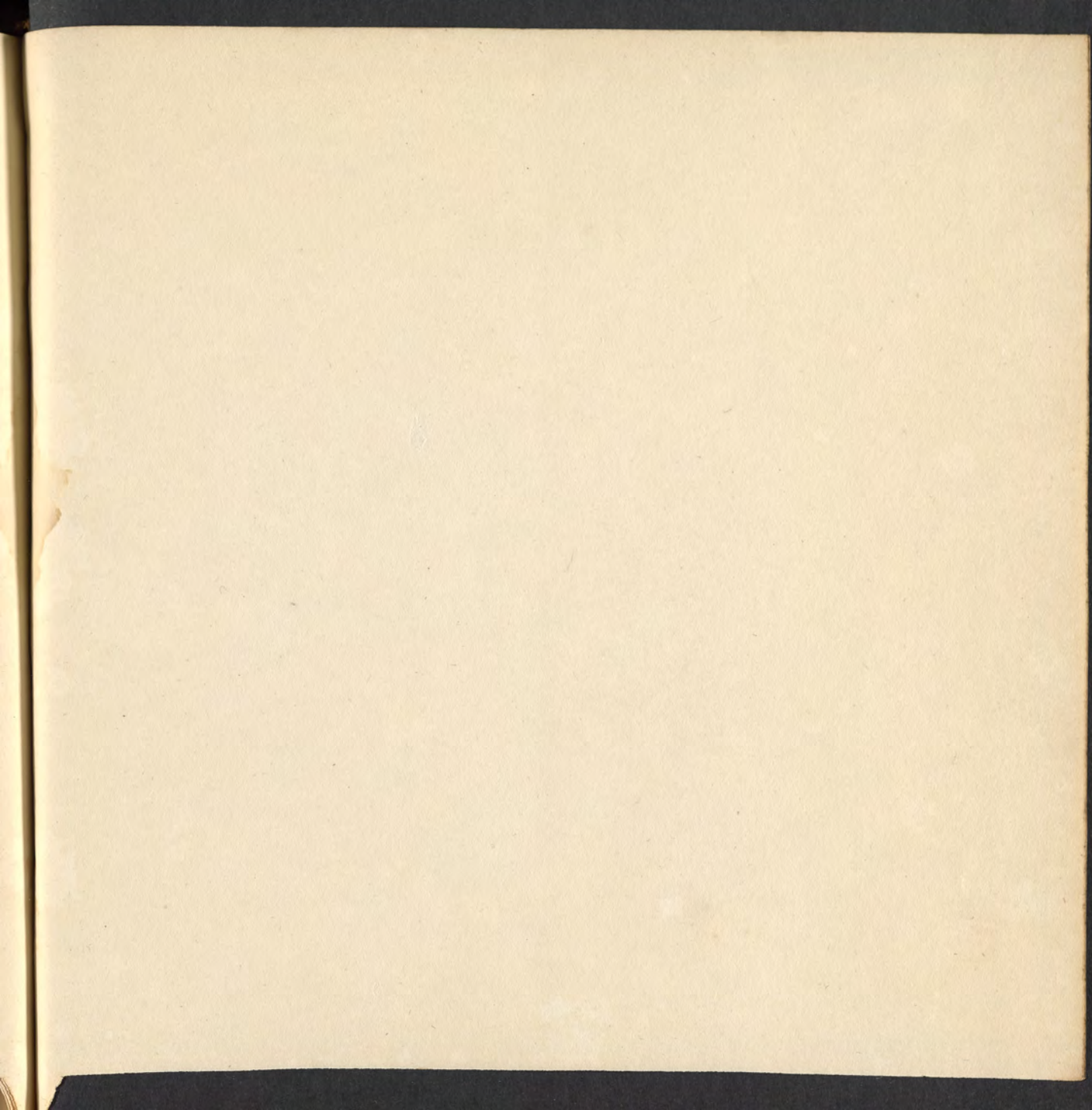


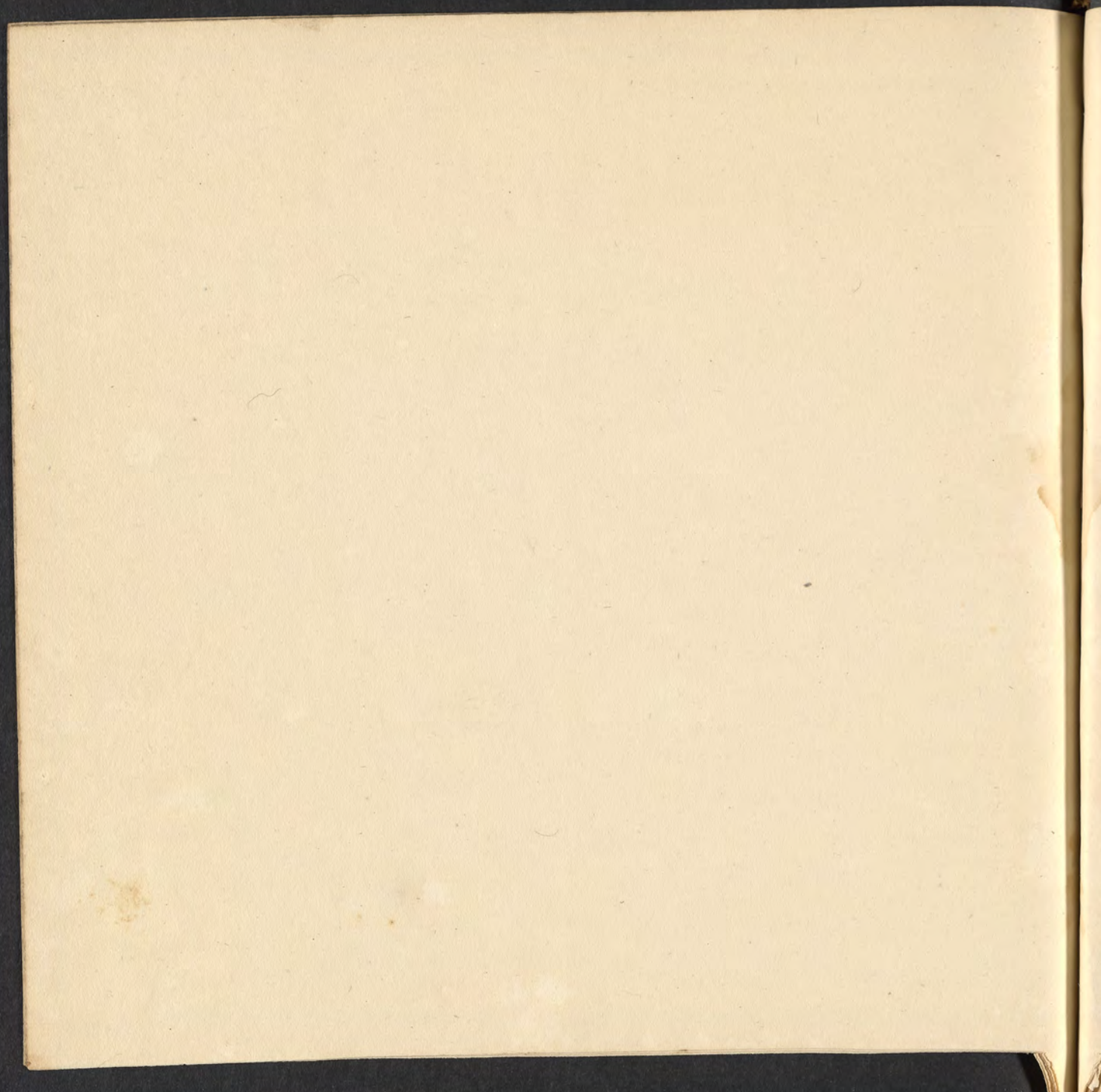


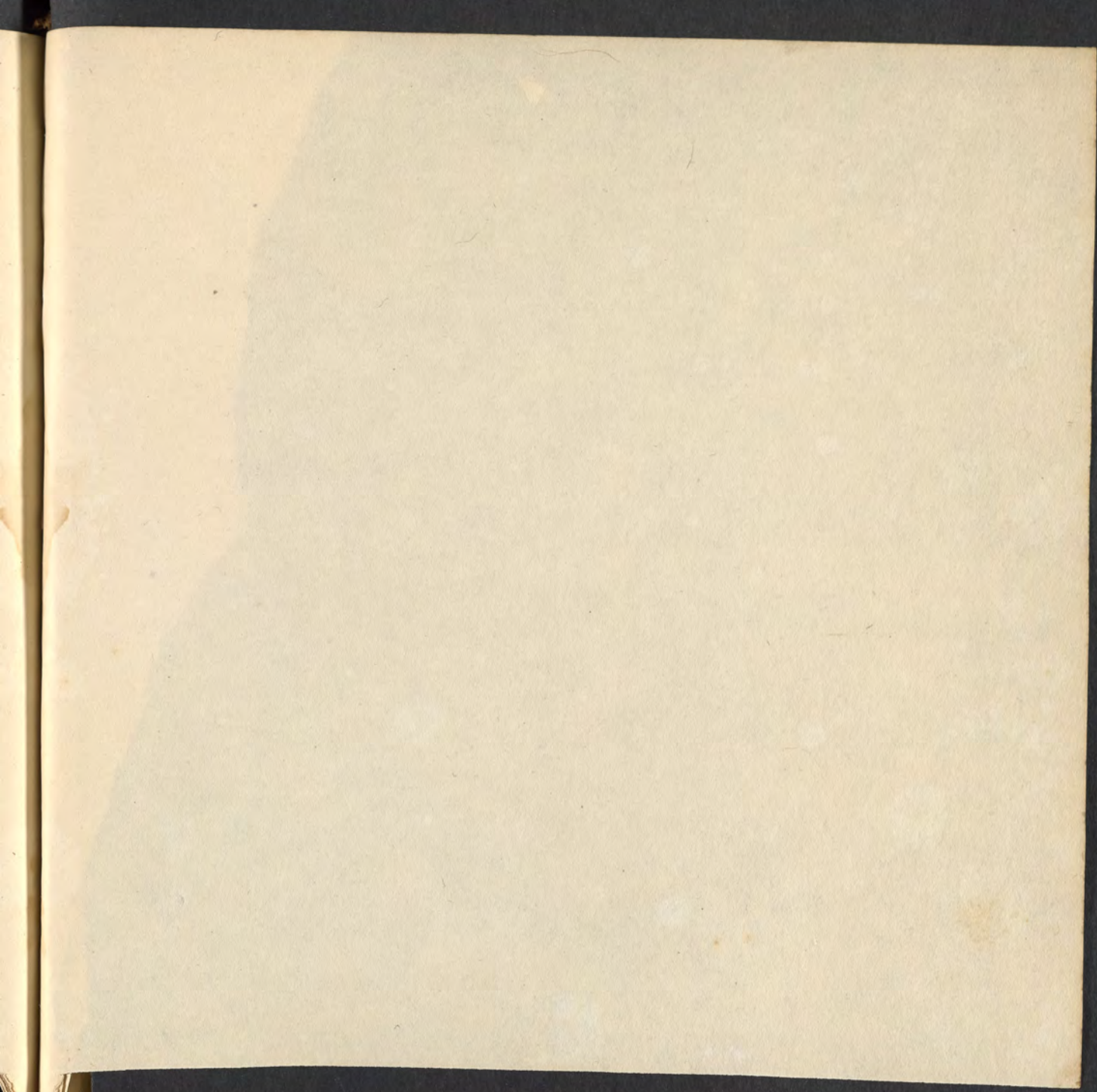


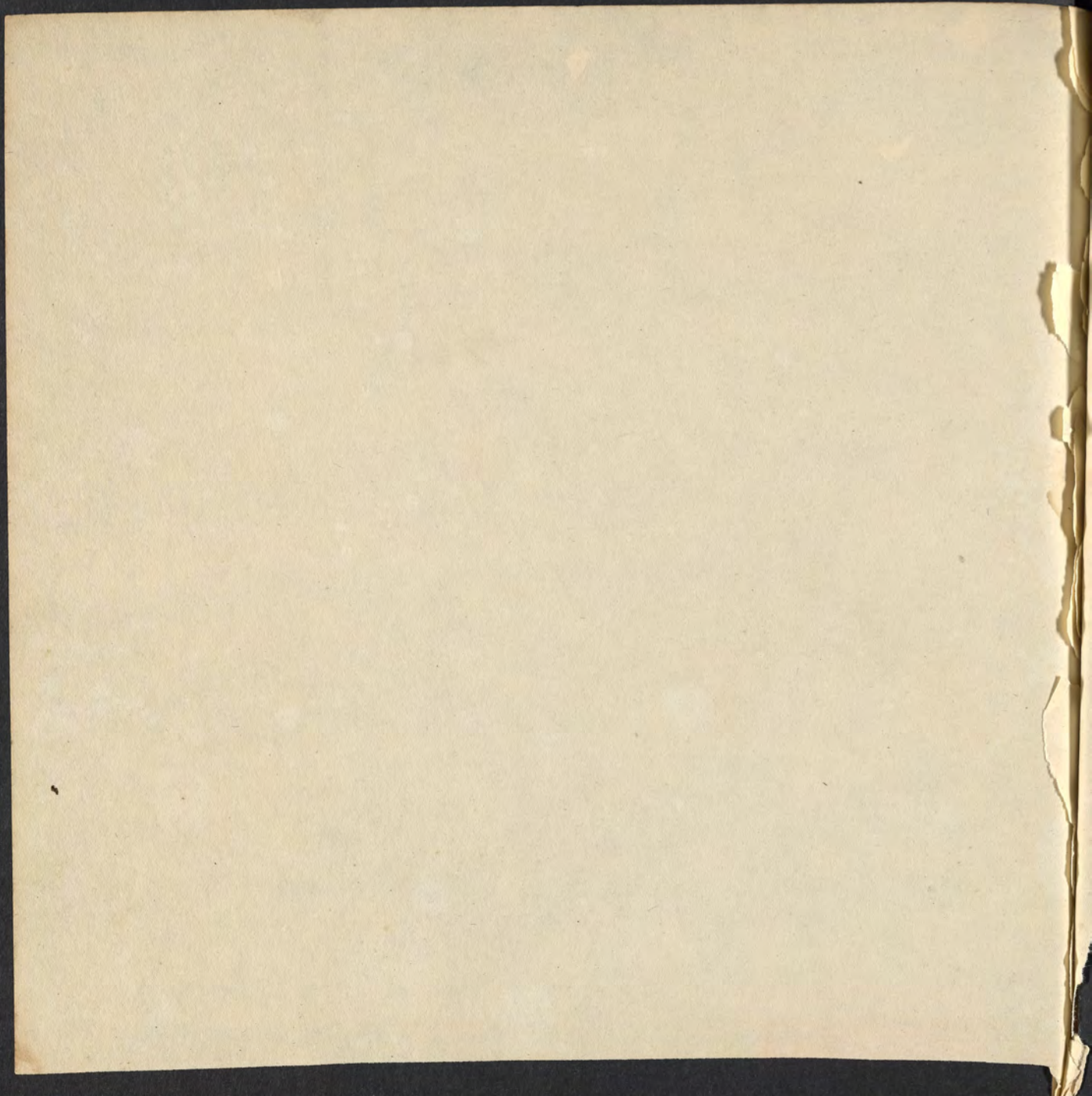


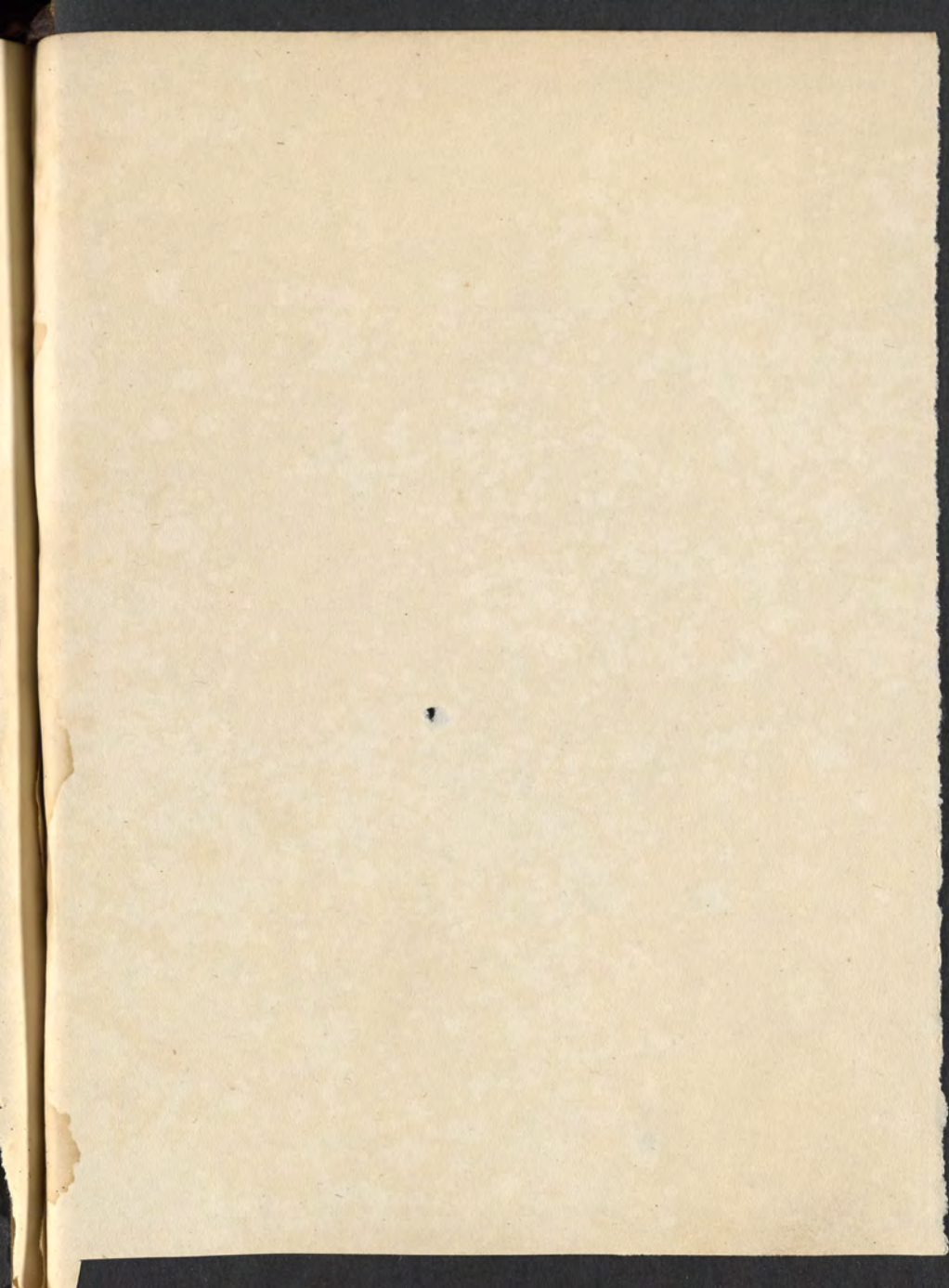


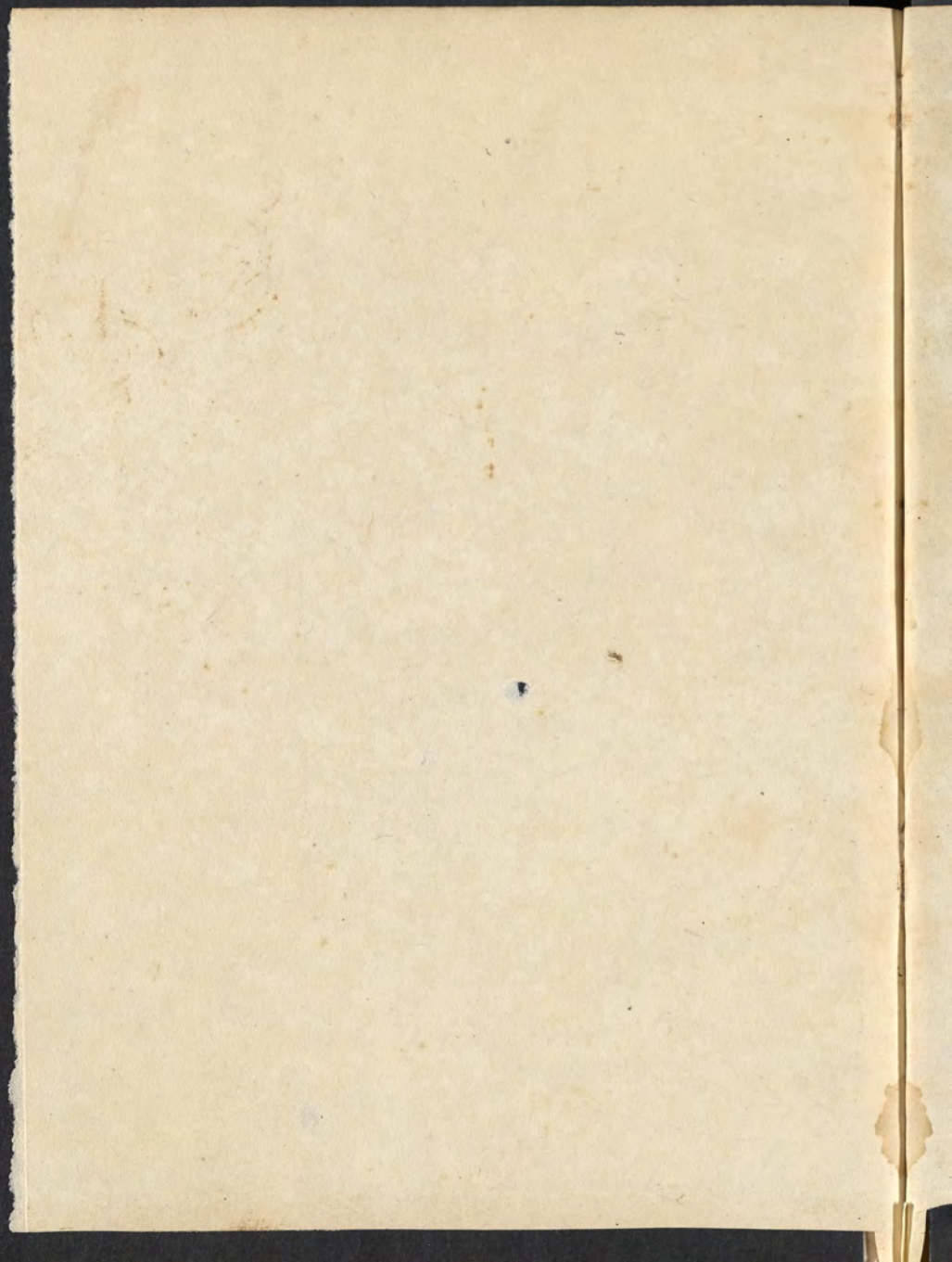












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